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*the magazine for
defence equipment
and support*



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frigates ruling the waves**

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Foreword

As we head into the summer holiday season, there has been no respite in activity in DE&S as we continue to deliver the very best equipment and support for our armed forces.

"July was very busy as usual with a particular highlight being the Royal International Air Tattoo at RAF Fairford"



By Sir Simon Bollom, CEO

July was very busy as usual with a particular highlight being the Royal International Air Tattoo at RAF Fairford, where I was able to meet with many of our key stakeholders from across the Defence enterprise. RIAT affords us an ideal opportunity to discuss issues with international colleagues and global suppliers in an efficient way at the same time as seeing our key capabilities on display.

During the show I was pleased to be at the landmark ceremony to mark the UK/Sweden Memorandum of Understanding on future combat air. This commits both governments to working together to understand the systems required to deliver future capabilities, and how best to develop, deliver and support them. I hope that other nations with similar expertise will now join the collaboration so that we can progress towards developing the future state-of-the-art air system.

The P-8A Maritime Patrol Aircraft was also on display, of which we have ordered nine for the RAF to work alongside Type 26 frigates to support maritime surveillance, anti-submarine warfare and anti-ship warfare for the UK.

Just a week beforehand the first of those aircraft - ZP801 - made its inaugural flight in Seattle and I'm delighted that some of our team were on hand to witness it.

Our F35s were also present at RIAT, just days after the second training squadron of the state-of-the-art jets had arrived at RAF Marham, including the UK's 18th jet. The arrival of 207 Squadron means all training on the jet can be conducted in the UK for the first time, another key

milestone on this programme.

In Land the announcement of the joint venture between defence companies Rheinmetall and BAE Systems Land UK means there are exciting times ahead as we work with the new organisation to ensure our armed forces have the battle-winning combat vehicles they deserve. The merger will help preserve key technology and engineering skills and represents a significant boost to the armoured vehicle supply chain in the UK, helping to guarantee the British Army's access to cutting-edge military technology and attracting new inward UK investment.

In the Ships domain, an £85 million engine support contract has been signed to ensure the Type 23 remains a key member of the Royal Navy's fleet, while their in-service life is also being extended by the installation of new chilled water plants.

The new senior leadership team of the Royal Navy – First Sea Lord Admiral Tony Radakin, Second Sea Lord Vice Admiral Nick Hine and Fleet Commander Vice Admiral Jerry Kyd – visited MOD Abbey Wood as part of their tour round the UK to speak to more than 3,000 sailors, Royal Marines and civil servants about their vision for the future of the Service. DE&S has a vital role to play in helping the Royal Navy respond to the changing security context, a fact readily acknowledged by the team. It is always good to hear directly from our customers about how we can continue to work successfully together to deliver great capability.

Finally, DE&S has been given the exciting opportunity to play a key role in developing Directed Energy Weapons – a technology that has the potential to revolutionise the battlefield. Powered solely by electricity and operated without ammunition, these cutting-edge weapons could significantly reduce operating costs and provide the front-line with unprecedented flexibility. Another example of DE&S being at the centre of innovation.

Editor:

Tom Morris - 9352 37888 or
0117 9137888
tom.morris114@mod.gov.uk

Contributors:

Laura Martin Plaza, Louise
Allford, Leah Ginnelly, Paul
McLennan and Louisa Keefe

Photography and Design:

Katherine Williams, Charlie
Perham, Jack Eckersley, Beth
Squire, Andrew Linnett and Mark
Hawke

Distribution Manager:

Dick Naughton - 9352 34342 or
0117 9134342
Dick.Naughton501@mod.gov.uk

Advertising Manager:

Edwin Rodrigues
edwin.rodrigues@
noahsarkmedia.com
+44 (0) 748 257 1535

Printing

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Photo courtesy of Royal Navy

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Richard Smart, Director Weapons, talks to Desider about the Weapons Operating Centre, his passion for development and continuous improvement



The Weapons Operating Centre (OC) is much the same as all other DE&S OCs. Our job is to equip and support our armed forces with reliable in-service equipment through a sustainable and capable logistics supply chain. But the major difference is our specialist subject is munitions, weapons and explosives.

We also have Defence Munition (DM) depots which store, process and distribute both explosive and non-explosive munitions to forces worldwide. We have around 1,000 staff who work across the seven primary DM depots in the UK in addition to some 800 staff based at Abbey Wood.

The Long Term Partnering Agreement with QinetiQ is an interesting part of our portfolio and the test and evaluation contract provides services across a range of military domains. Recent work to develop this contract has been a real highlight as it's created significant efficiency savings and given us a smarter contract with opportunities to get more value at reduced cost. It was one of several Weapons OC winners at last year's CEO Commendations and managing our ongoing contracts

is an ongoing priority. We're also working with BAE Systems on a new general munitions contract. As well as this, we are putting a contract in place for Torpedoes in-service support. We're also beginning to look at refreshing our complex weapons acquisition strategy for the next decade.

DE&S-wide, focusing on our continuous improvement is important to help us achieve our aim of being an organisation that provides great delivery through great people in a great place to work.

We're now seeing our transformation programme come to fruition and there are really encouraging signs that the changes are making us a stronger, more professional organisation. For example, as a result of applying earned value management to our work, people are now asking more insightful and intelligent questions of our supply chain.

What I'd like to see next is a strong approach to personal professional development. We've created the framework with the introduction of our functions, but I'd like to take it up a few notches. Through deployment, we need

I feel our reputation, as well as the importance of what we do, is key to attracting new talent

to allow people to fulfil roles that enable them to develop and give them the opportunity to do jobs that will be of value to their own professional development. We need to complement this approach with the right choice of more set piece training and development for our teams.

I joined the MOD as a student engineer in 1986 and was attracted by the opportunity to learn and develop. I liked the idea of being part of a big organisation with a choice around what I might end up doing. I've found that there's always an interesting next job to do and I've been fortunate that, most of the time, they've been enjoyable roles too.

These days I feel our reputation, as well as the importance of what we do, is key to attracting new talent into the organisation. I'm involved in developing DE&S' outreach programme that is looking at how we build our reputation in the community. If we have a reputation as an organisation that does good, it can only help with recruitment and retention of staff. After all, who doesn't want to be part of something good?

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Poseidon-8A – First flight for Maritime Patrol Aircraft

Pictured: DE&S staff joined their RAF and Boeing colleagues to witness the inaugural flight (Picture courtesy of Boeing)



The first RAF P-8A Poseidon (ZP801) has made its inaugural flight in Seattle with DE&S, RAF and Boeing P-8 project leaders and staff on hand to witness the take-off and landing.

This is the first of nine aircraft ordered for the RAF that will work alongside eight cutting-edge new Type 26 frigates to support maritime surveillance, anti-submarine warfare and anti-ship warfare for the UK.

Michelle Sanders, DE&S P-8A team leader, celebrated the hard work of her team and said:

“The P-8A project has delivered at pace from the very start; a mere eight months between the initial go-ahead and final approval. The determination, agility and sheer hard work of a small delivery team has been repaid with the maiden flight of our first aircraft taking place less than three years since gaining approval.”

Following the initial successful flight, which lasted 90 minutes, the aircraft moves to the augmentation phase where Poseidon-specific military systems will be installed – this is what will transform the aircraft into a P-8A. When delivered, RAF personnel will initially operate it from US naval

air station Jacksonville, Florida, where they will undertake shakedown and acceptance activities. The RAF will take delivery of ZP801 later this year and it will move to the UK in early 2020.

Poseidon ZP801 will be named ‘Pride of Moray’, chosen to celebrate the Maritime Patrol Aircraft heritage of Moray as well as honouring the Poseidon’s future home at RAF Lossiemouth, Moray, Scotland. Once fully operational, around 500 RAF personnel will be stationed there. A strategic facility that will provide accommodation for everyone operating and supporting the aircraft is being built there under a separate project being managed by DE&S.

DE&S Director Air Support, Richard Murray, said: “DE&S is proud of the part it plays in delivering the best possible equipment for our armed forces. “It has taken a real team effort with Air Command and Boeing and, just three years after approval was given, we have seen the first of the RAF’s new maritime patrol fleet take to the air for the first time; a real testament to the close working relationship that has enabled this remarkable event.”

The P-8A project has delivered at pace from the very start; a mere eight months between the initial go-ahead and final approval

Michelle Sanders,
DE&S P-8A team leader



DE&S to play key role in cutting-edge programme

Pictured: CGI of a Directed Energy Weapon on a Wildcat helicopter (Crown Copyright)



DE&S has been asked to play a key role developing cutting-edge laser and radio frequency weapons that have the potential to revolutionise the battlefield.

Directed Energy Weapons (DEW), are powered solely by electricity and operate without ammunition.

They can be fuelled by a vehicle's engine or a generator, which would significantly reduce operating costs and provide unprecedented flexibility on the frontline.

DE&S and the Defence Science and Technology Laboratory (DSTL) have formed a joint programme office to examine the potential of the technology and to accelerate its introduction onto the battlefield.

DEW consist of radio frequency weapons and laser weapons systems. Radio frequency weapons are designed to disrupt and disable enemy computers and electronics and the laser weapons systems will deploy high energy light beams to target and destroy enemy drones and missiles. These weapons are expected to reach the frontline within ten years.

Deputy head of the project at DE&S, Holli Kimble, said: "This really is the future of warfare and an incredibly exciting project for

This really is the future of warfare and an incredibly exciting project for DE&S to be involved with

Holli Kimble,
Project Deputy Head

DE&S to be involved with. This will demonstrate the military utility of DEW and this forward-thinking and innovative project will propel us in the vanguard of military technology."

The new systems are expected to be trialled in 2023 on Royal Navy ships and Army vehicles. It's anticipated that, once developed, both technologies could be operated by all three services. The armed forces will use these exercises to get a better understanding of DEW, assess how they could be integrated with existing platforms and test the systems to their limits.

Including the construction of a new joint programme office and the recruitment of personnel to manage the programme, the MOD aims to invest up to £130 million in this package of capability demonstrators.

These demonstrators are part of the MOD's 'Novel Weapons Programme' which is responsible for advancing our understanding of innovative weapons systems to ensure the UK remains a world leader in military technology.

This portfolio will build on initial trials of laser weapons systems, with the Dragonfire demonstrator, commissioned by DSTL, to be tested later this year.

Dragonfire represents a world-first in laser weapons technology. Combining multiple laser beams to produce a weapons system it's more powerful than its predecessors and resistant to the most challenging environmental conditions.

Demonstrators will include a high energy laser onboard a ship for air and surface defence applications as well as a high energy laser on a land vehicle for short range air defence and counter surveillance applications. Additionally, a high-power radio frequency weapon on a land vehicle for unmanned air systems and counter-mobility applications will be included.

20 years of DSEI

This year marks the twentieth anniversary of the Defence and Security Equipment International (DSEI) exhibition, which showcases the very latest technologies and services from leading organisations and specialist suppliers.

The event, which was founded in 1999, has been held in the ExCel Centre in London since 2001, and connects governments, national armed forces, industry, thought leaders and the global defence security supply chain.

With a range of opportunities for networking, a platform for business, access to relevant content and live-action demonstrations, the DSEI community can innovate, share knowledge, discover and experience the latest capabilities across the aerospace, land, naval, security and joint domains.

This year DSEI runs from September 10-13 and there will be 1,600 exhibitors, more than 35,000 attendees and 300 plus world-class speakers.

www.dsei.co.uk/



Survivability showcased on film

An impactful video has been produced to illustrate the vital work carried out by the Survivability team at DE&S.

Embedded within the Dismounted Close Combat (DCC) section of Soldier Training and Special Programmes, the team is responsible for procuring and supporting any kit that the DCC soldier uses to enhance protection.

The video features UK battlefield trials and human factors integration trials of PETREL – a combat clothing project currently in the assessment phase. These trials are essential to ensure we are testing

potential kit in real-life scenarios, and how the kit interacts with troops.

It also features two army personnel describing real-life scenarios where the kit procured by Survivability and DE&S have worked to minimise injury and prevent loss of life.

Survivability team member Sarah Anderson said: “For me, it is really rewarding to work in a team that provides life-saving kit. It has been incredibly fulfilling to see the kit I have been working on tested out by trial troops. This direct link, and quick project turn-around, motivates me to come to work every day.”



New Min DP appointed

Anne-Marie Trevelyan MP has been appointed as Minister for Defence Procurement.

Ms Trevelyan was announced as Parliamentary Under Secretary of State at the Ministry of Defence on July 27 following Boris Johnson's appointment as Prime Minister.

The MP for Berwick-on-Trent replaces Stuart Andrew, who in Mr Johnson's reshuffle has been appointed Vice Chamberlain of HM Household (Government Whip). Mr Andrew had served as Minister for Defence Procurement since July 2018.

Elsewhere, Ben Wallace, MP for Wyre and Preston North, was appointed Secretary of State for Defence on July 24, replacing Penny Mordaunt.

Mr Wallace is a former Army officer who attended the Royal



Military Academy, Sandhurst, before being commissioned as an Officer into the Scots Guards. During the 1990s he saw service in Northern Ireland, Germany, Cyprus and Central America.





Wildcat captured in all its glory

This dramatic image of a Wildcat helicopter test firing its defensive aid suite alongside HMS Diamond was one of a series of astonishing pictures at the Royal Navy's annual photographic competition – the Peregrine Trophy Awards.

Lieutenant Commander Oliver Clark, who took this picture,

was one of several talented photographers whose work give a glimpse behind the scenes of the daring work carried out by Royal Navy sailors and Royal Marines around the world.

Royal Navy photographers are charged with telling the stories of sailors and Royal Marines through still imagery and video,

taking them on deployments with warships and commando units wherever they may go.

Leading photographer Sam Seeley was named the Royal Navy's photographer of the year by the judges for his portfolio of imagery from operations across the globe.



Warrior CSP

The DE&S Creative team recently had the opportunity to capture footage of the reliability and growth trials taking place as part of the Warrior Capability Sustainment programme (CSP).

Warrior CSP will deliver the world's first ever infantry fighting vehicle that will defeat moving targets whilst on the move, combining devastating 40mm armour piercing and airburst lethality. It will deliver a fleet of upgraded Warriors which will be the cornerstone of the modernised armoured infantry brigades.

The programme will also enhance the armoured infantry's operational effectiveness through upgrades to its survivability, improved situational awareness and network enabled capability.



Thank you, readers

The Desider team would like to say a big thank you to all readers across DE&S, industry and the wider MOD who took time to fill in the readership survey.

In just four weeks more than 800 of you came back with your views on what you enjoy about the magazine and what you think could make it even better.

That's more than four times the number that answered the previous Desider readership survey, which took place over a three-month period.

Over the coming weeks, the team will collate the information and identify key themes that could help shape the magazine in the future.



Pictured: A vast array of aircraft took to the skies at RIAT including clockwise from top left Chinook, F-35, A400M, the Red Arrows, Apache and Typhoon (Pictures by Andrew Linnett, Jack Eckersley and Luke Hancock)

Showcasing the future of combat air at RIAT 2019

The Air Tattoo returned last month to RAF Fairford with one of the most diverse military flying displays in the world

This year's Royal International Air Tattoo (RIAT) got off to a wet and windy start, but even the poor weather didn't put a damper on some major UK defence announcements. RIAT is very much more than an airshow, it attracts senior leadership from industry and the armed forces world-wide and provides an excellent opportunity to build relationships and progress the strategic issues.

The highlight was a landmark agreement for the UK to partner on future combat air with Sweden. The Memorandum of Understanding (MOU) commits both governments to work together to understand the systems required to deliver future capabilities and how best to develop, deliver and support them. Government and industry studies will shortly be launched to meet this objective.

It also provides a strong partnership from which to encourage other nations to participate.

The MOU allows the UK and Sweden to explore the use of advanced technologies on existing Gripen and Typhoon aircraft, before using them on a future combat air system. A UK view of future combat air systems, the Tempest concept, was unveiled at Farnborough last year – it envisioned technologies such as advanced flexible power and propulsion systems, virtual cockpits and laser directed energy weapons.

Sir Simon Bollom, DE&S CEO, said: "DE&S is providing technical and acquisition expertise into our work with Sweden and other potential partners. In doing so, we are drawing from the UK's rich history of successful international collaboration to jointly develop approaches that provide value for all participants."

"Beyond technology, there is an early focus on how we can best leverage the potential of new transformational delivery approaches", explained Hugh Woodward, Deputy Head Future Programmes, DE&S Combat Air Strategy Team (CAST). "An important aspect of this is providing the flexibility to rapidly respond – both technically and programmatically – to an uncertain future environment."

Other key announcements at RIAT included:

- The first of our nine Poseidon conducted its inaugural flight on 12 July and will be delivered to the RAF in late-October 2019 and to RAF Lossiemouth in early 2020. A US P-8A was on display at RIAT.
- An MOU for a new team of US and UK defence personnel, named Team Artemis, to

research the military use of small satellites and how they rapidly provide information to combat aircraft. The programme covers a range of space mission areas and is being led by RAF Air Staff, supported by DE&S, the Defence Science and Technology Laboratory (Dstl) and industry.

- Leonardo awarded a contract to 2Excel Aviation for the provision of a large-body flight test aircraft under Team Tempest – a collaboration between the RAF Rapid Capabilities Office, Dstl, DE&S and industry partners. The modified Boeing 757, due to enter service in the early 2020s, will conduct airborne testing and integration of a range of sensor and mission systems technologies being developed by Team Tempest. These technologies will enable rapid development of capabilities for a future combat air system as well as for UK F-35 Lightning and Typhoon aircraft.
- It was announced that the DE&S Technology Office have placed a contract to develop hypersonic aircraft propulsion systems. Rolls-Royce, BAE Systems and Reaction Engines will design and test critical high Mach propulsion technology over the next two years, paving the way for a UK centre of excellence in this area and contributing to UK MOD future defence needs.
- Under the Lightweight Affordable Novel Combat Aircraft (LANCA) programme, the RAF RCO and Dstl announced contracts for Phase 1 of the 'Mosquito' demonstrator project. This initial phase will produce a preliminary system design of an unmanned air vehicle, and identify how it can be delivered quickly and affordably. Initial flight test of the demonstrator air vehicle could take place from 2022. LANCA, along with Team Tempest, will inform the MOD's future combat air acquisition programme.

Over 1,000 people across government and industry in the UK are already working in future combat air, with plans to increase that number to over 2,500 by 2021. As part of this, DE&S CAST needs to grow rapidly and has opportunities across all DE&S functions. If you are interested in this exciting opportunity, please email DE&S CAST through [@teamtempestuk](mailto:Mark.Butterworth882@mod.gov.uk)

New Senior Leadership of Royal Navy visit ABW

Pictured: Admiral Tony Radakin, Vice Admiral Nick Hine and Vice Admiral Jerry Kyd were welcomed by CoM (Ships) Vice Admiral Chris Gardner (Picture by Jack Eckerley)



The new Senior Leadership of the Royal Navy spent last week touring naval bases, air stations, Royal Marine barracks and headquarters, including Abbey Wood, speaking to over 3,000 sailors, marines and civil servants about their vision for the future of the Service.

Admiral Tony Radakin, Vice Admiral Nick Hine and Vice Admiral Jerry Kyd have all recently assumed their new roles as First Sea Lord, Second Sea Lord and Fleet Commander respectively, and will all be in post at the top of the Service for the next three years.

When visiting MOD Abbey Wood, Admiral Radakin highlighted how the union of Navy Command and DE&S, with Vice Admiral Chris Gardner as Chief of Materiel (Ships) and Sir Simon Bollom as CEO, has perfectly aligned and encouraged DE&S staff to draw confidence from the position the organisation was now in.

Vice Admiral Chris Gardner said: "It was great to welcome the Royal Navy's new senior leadership team to Bristol. Our customer is ambitious for the Royal Navy and

Our visits have reaffirmed for me just how good all of our people are at what they do, whether delivering operations or in a myriad of vital support roles

Admiral Tony Radakin,
First Sea Lord

has a clear vision to deliver at pace. I look forward to supporting them, as one team, in their 1,000-day plan."

Their 1,600-mile round trip spanned most of the country from London to West Cornwall and from Portsmouth to Scotland. The whistle-stop tour was a chance for the three Admirals to explain their collective view of the future Naval Service and the exciting transformation journey the Royal Navy has embarked upon to enhance its operational effectiveness and improve conditions for those who serve and their families.

Meanwhile, discussion groups at each location gave them a chance to consider in greater detail some of the key day-to-day issues that they will address.

Admiral Radakin said: "I want everyone to understand the very good position we are in and the even more exciting opportunity that lies ahead as we all embark on our transformation journey. I was determined to get out early in the first few weeks of my tenure to describe in detail our vision of an even better Royal Navy, Royal

Marines and Royal Fleet Auxiliary, and to get feedback on those ideas directly from those who will be at the forefront of this fantastic journey."

The First Sea Lord added: "Our visits have reaffirmed for me just how good all of our people are at what they do, whether delivering operations or in a myriad of vital support roles. It's humbling to see how invested they all are in our Service and it's clear from speaking to them that they're up for the challenges ahead. With their energy and talent to draw upon I'm even more certain we will succeed in making the Service even better and ready to fulfil its role, meeting the Defence need to respond to the changing security context."

The vital feedback from their visit will contribute to the Naval Service Blueprint for delivering transformation which will be published at the start of the autumn term.

LAND CEPTOR by MBDA



Land Ceptor utilising MBDA's soft vertical launch technology with the CAMM, the latest generation of air defence system, providing capability from very short ranges to beyond 25km. In British Army service, Land Ceptor replaces Rapier, providing a step-change in capability, including the ability to intercept a greater 360-degree target set. A critical element of layered air defence, Land Ceptor enhances Divisional GBAD in independent and NATO operations, able to interoperate with a variety of domestic and international sensors and command and control nodes.



SECURING
THE SKIES



PROTECTING
YOUR ASSETS



MASTERING
THE SEAS



COMMANDING
THE COMBAT ZONE



On variety, embracing challenge and teamwork

Richard Murray is Director Air Support and responsible for delivering a vast range of air equipment capability to the armed forces

What does your role involve?

As Director Air Support my role is to deliver a vast range of air equipment capability to the Royal Air Force, Joint Forces Command, Army and Navy. From aircrew clothing to tactical and strategic air transport through to complex Intelligence, Surveillance, Target Acquisition and Reconnaissance (ISTAR) platforms. If it's big and flies or it's something you just can't do without (e.g. a parachute), then generally speaking it's down to me and my team.

What about your role is exciting, rewarding or interesting?

Without doubt it's the sheer breadth of this job that I find exciting and rewarding in all aspects. I have sometimes absolutely no idea what issue is going to hit next. One minute I can be working to improve availability on our biggest platforms, the next I can be unblocking some bureaucracy that is making our lives difficult. My focus is currently on enabling and supporting our armed forces on operations around the world by improving the availability of key in-service equipment. We also set ourselves up to deliver future capabilities including the Poseidon P-8A and the E7 Wedgetail. With 12 in-service aircraft types and a vast array of commodity items including parachutes and airfield equipment, the Operating Centre (OC) spends c£2 billion a year, has an order book worth £21.8 billion including 217 suppliers and delivers c64,000 flying hours a year. It's never boring.

How important to you is teamwork?

I have learnt, and continue to learn daily, the most important

part of successful delivery is about the relationships and friendships you develop and the support you get from those around you. I have worked in teams as small as four as an apprentice at RAF St Athan, to teams of 100 or more in equipment acquisition, as well as leading the Air Support OC of over 1,000 people today. You soon realise great things are done through great teamwork and I genuinely believe being part of a successful team is an inspiring place to be.

How are you helping embed change in your area?

Transformation, change and continuous improvement is all around us. My overriding experience is that generally people come to work and want to do a good job. People want to get better at what they do and we learn and grow through the experiences we have. In my view, 'change' is simply one way to help us improve. Of course, the last three years in DE&S have been dominated by transformation and my role is to champion the cause, help teams embed new ways of working and map out our path to DE&S@21. Interestingly, I am seeing different teams starting to exploit the information we now have. This is great and is exactly the 'pull' I want to see.

Why did you choose to pursue a career in DE&S?

I have been very lucky throughout my career to have done a range of challenging, interesting and hugely rewarding jobs. It's the combination of delivering something worthwhile, supporting our armed forces, coupled with the variety and opportunity on offer in DE&S that keeps me here. As usual, any job is what you make of it, but I have loved my 25 plus

years in defence. Every day is different and I am proud of what we achieve.

What do you most enjoy about your job?

Two things really. Working with one of the most professionally capable workforces in the UK is the first because we deliver great things time and time again, and the second is the intellectual challenge of the job itself.

What do you enjoy doing in your spare time?

I am passionate about a few things – playing golf, annoying my kids and spending quality time with my family, to name a few. Generally, good food and wine also play a large part in my life. I'm not a fan of DIY. Life's too short.

What might surprise people about you?

I am the only person I know who has been run over and has run someone over. I was run over by a bright red London double decker bus and I ran somebody else over in my car. Thankfully both of us lived to tell the tale.

Landmark merger between Rheinmetall and BAE Systems announced

Pictured: Former Defence Minister Stuart Andrew attended the event at RBSL's site in Telford (Picture courtesy of RBSL)



Chief of Materiel (Land) Lieutenant General Paul Jaques has welcomed the creation of a landmark joint venture between defence companies Rheinmetall and BAE Systems Land UK.

The partnership, named Rheinmetall BAE Systems Land (RBSL), will see the companies combine their market-leading specialisms to form a new powerhouse in the world military vehicle sector and help guarantee the British Army's access to cutting-edge military technology.

The merger will immediately sustain in the region of 400 jobs in the West Midlands, with potential to create and sustain up to 1,000 jobs across the UK as new programmes come on stream, as well as preserving key technology and engineering skills in the West Midlands and the wider supply chain.

Lt Gen Jaques said: "We have enjoyed a strong working relationship with BAE Global Combat Systems (GCS) UK and Rheinmetall Land Systems individually and this new joint venture, which includes Rheinmetall taking a 55 per cent share in exchange for a £28 million private venture investment in BAES GCS to enable an

MIV is one of the largest and most significant acquisition programmes the Army and DE&S are undertaking and is aimed at modernising the British Army's equipment portfolio

Major General Simon Hamilton, the DE&S' Front Line Commands customer for MIV

exciting new collaborative way of working, will only strengthen this relationship.

"The shared expertise both these companies bring to defence can only be of benefit to our customers as we will continue to develop and deliver world-class, battle-winning capabilities to the British Army."

The merger was marked by a Squad of Scots Guards, while a Boxer vehicle was secured for the event from the Dutch Army. Boxer is the key platform intended to re-equip the British Army and enable the new Strike Brigades.

Major General Simon Hamilton, the DE&S' Front Line Commands customer for Mechanised Infantry Vehicle (MIV), said: "MIV is one of the largest and most significant acquisition programmes the Army and DE&S are undertaking and is aimed at modernising the British Army's equipment portfolio.

"This merger is exciting news and we look forward to the benefits it will bring to the delivery and support of new equipment to the Army."

Roddy Malone, Head of Land Concepts and Assessment at DE&S, added: "This Joint Venture is an important step in the development of the UK industrial supply chain for MIV with a Boxer manufacture line being established

in Telford, a facility which will also be utilised for the Challenger 2 Life Extension Programme."

The announcement was supported by former Defence Minister Stuart Andrew, who visited RBSL's site in Telford.

Mr Andrew, then Minister for Defence Procurement, said: "This venture displays how the defence industry is benefitting regional economies, upskilling apprentices, supporting families and creating jobs in every corner of the UK."

The new venture is expected to shortly present proposals to the British Army for the programme to upgrade the Challenger 2 battle tank fleet and the production and delivery of some 500 Boxer fighting vehicles.

The venture will also see the companies continue to support other battle-winning combat vehicles such as the in-service Warrior, Trojan and Terrier.

Headquartered in Telford, with manufacturing on site, the new venture represents a significant boost to the armoured vehicle supply chain in the UK, helping to guarantee the British Army's access to cutting-edge military technology and attracting new inward investment to the UK.

Hazelle bowls over judges with her commitment to inspiring underprivileged children

Lieutenant Commander Hazelle Garton of the DE&S Merlin delivery team in Yeovil has won the Defence category of the WeAreTheCity Rising Star Awards 2019.

The prestigious awards, sponsored by The Times and Sunday Times, help identify and promote female talent, by highlighting the women to watch at all levels within organisations – with the particular aim of shining the spotlight on future leaders.

Hazelle was one of more than 1,250 women nominated for the awards across 22 categories and clearly impressed the leading industry judges.

She was nominated by line manager Commander Polly Hatchard, who hailed Hazelle as a “talented, humble and inspiring female ambassador for the Royal Navy and Royal Navy Women’s Sport.”

Cdr Hatchard said: “I am so proud of Hazelle’s achievements. She is a truly remarkable and yet very humble individual, who has already achieved so much during her time in the Royal Navy and I know she is capable of so much more. It was an honour to nominate her. Well done Hazelle – fully deserved.”

Hazelle’s nomination noted that, as an Air Engineer Officer, she has total focus on delivering amazing quality and that her potential to reach a senior rank is widely recognised.

It also highlighted her outstanding sporting prowess and dedication to women’s sport. A particularly talented cricketer, Hazelle was recently selected to captain the UK Armed Forces Ladies Cricket tour to Kenya.

During the tour she facilitated coaching for about 200 Kenyan children living in slums, working with a community interest group called ‘Opening Boundaries’, where Hazelle’s leadership ensured the team played under the tag of ‘bowling out domestic violence.’

Last Easter she toured Barbados as captain of the Royal Navy women’s cricket team, where she took time out to teach and inspire more young schoolchildren from underprivileged environments, talking about respect, empowerment through sport, and how sport helps

teamwork and communication.

Hazelle, who received her award from BBC News presenter Jane Hill and Major General Duncan Capps CBE, said: “I was shocked and humbled to have been recognised simply for doing the job that I love and having the privilege to Captain UK Armed Forces and Royal Navy women’s cricket on tours that have been used as a vehicle to make a difference to young people’s lives. My thanks to all those within DE&S that voted for me and congratulations to the other winners and nominees.”

Merlin Team Leader Capt Kieran O’Brien added: “This is a truly outstanding national award for a hugely capable person. These awards recognise outstanding female talent across all professions and Hazelle is a most worthy recipient. She displays immense flair in her professional output and sporting achievements, ably

balancing her

sporting prowess with her demanding role within the Merlin Delivery Team and I’m very proud to see her gain public recognition for both.”



A warm welcome home for 207 Squadron

Pictured: F-35 jets from 207 Squadron have arrived at RAF Marham (Picture SAC Kitty Barratt)



The DE&S Lightning Delivery Team worked against the clock to support Lightning Force Headquarters to ensure 207 Squadron and the UK's 18th F-35 jet arrived home to RAF Marham.

Last month six F-35B aircraft took the ten-hour flight from Marine Corps Air Station (MCAS) Beaufort in South Carolina and the formation included the UK's 18th Lightning jet, BK-18.

DE&S personnel at Abbey Wood, RAF Marham and in the US carefully planned the trail, which was supported by RAF Voyager.

Lightning Delivery Team Project Manager, Nat Hagggett, said: "The 207 Squadron homecoming was a challenging milestone for our team, which made it all the more rewarding when the jets touched down on UK soil.

"The plan for the Squadron to return with all six aircraft in July meant that BK-18, which was still on the production line in June, was critical to ensuring the trail's success. Excellent teamwork between multiple stakeholders helped us overcome significant last-minute issues, which ensured

The 207 Squadron homecoming was a challenging milestone for our team, which made it all the more rewarding when the jets touched down on UK soil

Nat Hagggett,
Lightning Delivery Team
Project Manager

BK-18 was delivered to MCAS Beaufort in time for the trail home.

"This meant the customer received their full quota of six F-35B aircraft at RAF Marham on the day we promised, which, when considering the tight timeline and challenges faced, was a major achievement for the team."

Since 2013, Royal Air Force and Royal Navy personnel have trained alongside US Marine Corps counterparts at MCAS Beaufort. 207 Squadron will formally stand up on 1 August 2019 and the first F-35 pilot course at RAF Marham is due to commence in early September.

Defence Minister Mark Lancaster, who welcomed 207 Squadron to RAF Marham, said: "The arrival of 207 Squadron represents another milestone in the progress of this world-beating aircraft. As we welcome 207 Squadron home from our US allies, the transatlantic military relationship continues to be the strongest and deepest of any two nations in the world."

The arrival of 207 Squadron, also known as the Operational Conversion Unit, will see all training on the next-generation jet

conducted in the UK for the first time.

Air Chief Marshal Sir Stephen Hillier, then the Chief of the Air Staff, said: "Being able to train our pilots in the UK is another great leap in our sovereign capability. It will ensure the Royal Air Force and Royal Navy can train our pilots to fight and win with these extraordinary jets which will sit at the heart of our country's globally deployable forces."

This is the third tranche of F-35s to arrive in the UK with 617 Squadron arriving at their new permanent home last year and completing their first operational mission in the fight against Daesh in June 2019.



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£85 million contract to boost Type 23 capabilities

Pictured: Type 23 frigate HMS Sutherland pictured returning to Plymouth (Picture by LA(Phot) Vicki Benwell)



A DE&S team has signed an £85 million contract with Rolls-Royce to maintain the engines of the Royal Navy's Type 23 frigate fleet.

The contract, signed by the Marine Systems Support - Marine Gas Turbines Team, includes a comprehensive support package to Spey gas turbines, including the overhaul of engines and provision of spares, as well as engineering and safety support.

Updates to the turbines are vital as they boost propulsion in the Type 23 frigates. They are also key pieces of equipment for anti-submarine warfare.

Steve Burchill, Marine Gas Turbines Group Leader at DE&S, said: "I am delighted that the team's hard work and close collaborative approach with Rolls-Royce has resulted in the delivery of a significantly improved support solution that will benefit DE&S, Rolls-Royce and partner nations over the next eight years."

The Type 23 frigate is able to carry out a wide variety of operations, from securing the UK's vital maritime trade routes East of the Suez Canal to safeguarding

British interests in the South Atlantic.

DE&S Chief of Materiel (Ships), Vice Admiral Chris Gardner, said: "The Type 23 frigate is central to Royal Navy operations around the world and keeping it at the forefront of operations is critical.

"This contract will ensure Rolls-Royce continues to innovate through improving repair schemes, minimising unnecessary work and procuring cheaper spares. This will result in shorter, less expensive overhauls which is good news for the Royal Navy and good news for the tax payer."

The contract was announced at HMNB Devonport by former Defence Minister Stuart Andrew, during a visit where he witnessed a variety of drills and exercises preparing the Royal Navy for war-fighting, humanitarian relief and emergency situations.

The former Minister for Defence Procurement said: "This £85 million contract demonstrates the UK's commitment to modernisation through the maintenance of our formidable Type 23s."

The contract will see Rolls-

Royce overhaul thirty Type 23 engines from the UK and NATO partners Belgium, Portugal and The Netherlands.

It is expected to deliver a £35 million increase in savings to the MOD over the next eight years, by incentivising Rolls-Royce to improve repair schemes, minimise unnecessary work and procure spares at a lower cost. This will result in shorter, less expensive overhauls.

Rolls-Royce will project manage the support contract, while the main overhaul and repair work will be carried out by RWG. Based in Aberdeen, this will support up to 25 UK jobs across both companies.

I am delighted that the team's hard work and close collaborative approach with Rolls-Royce has resulted in the delivery of a significantly improved support solution

Steve Burchill,
Marine Gas Turbines Group
Leader at DE&S

DE&S sign £7.6 million contract to upgrade Type 23 water cooling system



The DE&S Marine Auxiliary Delivery Team has awarded a £7.6 million contract for the design, supply and commissioning of new chilled water plants to be installed on Type 23 frigates.

The team, based in Maritime Support Systems, secured the contract, that will maintain capability and extend the in-service life from 18 to 32 years with Johnson Controls.

The company hold multiple contracts with DE&S and have delivered existing chillers on the Type 23, Vanguard, Astute Class, Trafalgar Class and Type 45, as well as supplying chillers to foreign Navies.

The supply contract will last nine years to design, manufacture and commission 10 ship sets of chilled water plants.

The new plants offer a larger cooling capacity, and by increasing growth margins and creating extra capacity to remove heat, the updated system will ensure Type 23 can successfully continue operating in the Gulf, where water temperatures can reach as high as 40°C.

This is a bespoke design for the Type 23 that cools water circulating around the ship in a chilled water system to remove heat from electronics cabinets and provide a cooling medium for air conditioning.

Ian Book, Technical Project Lead at DE&S, said: "The success of this contract is testament to the tireless efforts of the Marine Auxiliary and Commercial teams and highlights how DE&S have worked as one team with Johnson Controls, strengthening our relationship and securing the delivery of next level capabilities for our armed forces and future warships.

"This contract is all about maintaining availability, reliability and capability of our Type 23 frigates whilst adhering to the latest environmental policy and we really feel the support from our industry partner will be seamless."

The refurb will be carried out during each docking period, with the first being on HMS Sutherland in 2021. The upgrade will increase cooling capacity of each chilled water plant from 370kW, to 500kW – providing scope for

This contract is all about maintaining availability, reliability and capability of our Type 23 frigates whilst adhering to the latest environmental policy

Ian Book, Technical Project Lead at DE&S

an increase in onboard weapons which contribute to additional heat load.

With staggered refurbishments this will enable operations to continue efficiently, providing reliable support to our armed forces.

The updates to HMS Monmouth, Montrose, Westminister, Northumberland, Richmond, Somerset, Sutherland, Kent, Portland and St Albans will maintain operability of the Type 23 frigates until the introduction of the new Type 26 frigates.

Ian Book added: "This update will help ensure our armed forces are properly equipped for service."

60 second spotlight

"When James Cameron's 'Titanic' hit the big screen, I saw it 40 times at the cinema. I was obsessed"

Nicholas Pearce

Job:

Administration Specialist working in the Commercially Support Shipping Business Management Team based at MOD Abbey Wood

Your route into DE&S?

I have worked in the Civil Service for 20 years. I joined Defence Business Services (DBS) in 2013 as an administration officer in recruitment. I then got a promotion to the Ships Portfolio Office in the Ships Domain. I recently changed function from Project Controls and now I work in Corporate Services.

Your claim to fame?

My main hobby is acting, and I belong to an amateur dramatics group. We perform twice yearly and put on two big shows during the year. We perform Shakespeare, comedy, farce and pantomime in which I have played the Dame on many occasions – it's great fun. Acting really helps with confidence, and I would encourage any shy person to have a go.

Your advice to anyone?

Be active and make the most of life. Be helpful and caring to others. Be determined to succeed as determination can overcome any obstacle. You only get one life so get the most out of it. Never take anything for granted and be grateful for what you have.

What do you do when you're away from work?

I am a keen swimmer. I used to swim competitively in my younger years and used to train nearly every night of the week. I then became a lifeguard and

gained a qualification in teaching swimming.

What are you most proud of?

One of my proudest moments was walking my friend down the aisle at her wedding. I have known her since childhood and we used to be neighbours. I am now a godparent to her three children which is great fun. I am also very proud to be a Mental Health First Aider here at Abbey Wood. It allows me to give people a vast array of information such as organisations and charities that might be able to help them further. DE&S recognised my contribution to the service and I was invited to Buckingham Palace for a Garden Tea Party.

If you were sent to a desert island, what three things would you take with you?

I would have to take some swimming shorts as it would be a struggle for me to stay out of the sea. I am also quite a clean person, so I would have to insist on my toothbrush and shower gel.

What irritates you the most?

I cannot deal with people who are late for an appointment or meet up. My other pet hate is when I see spelling mistakes in some text. Don't forget there is always 'spell check'.

What is your favourite place in the world?

I have to say New Zealand is one of my favourite places. It's a killer of a journey, but when you get there it is worth every second. I was able to explore most of the North Island and it was incredible, especially the scenery. The way of life in New Zealand is so laid back and I could easily adjust to it.



What would surprise people about you?

When James Cameron's 'Titanic' hit the big screen I saw it 40 times at the cinema. I was obsessed. I had to go to all the exhibitions and buy all the books about this famous disaster.

Do you or someone you know deserve their 60 seconds in the spotlight?

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Desider is the monthly corporate magazine for DE&S. It is aimed at readers across the wider MOD, armed forces and defence industry. It covers the work of people in DE&S and its partners, and other corporate news and information.

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An activity drive, a unique sport and an epic effort for charity



Employees across DE&S got involved in CSSC Sports and Leisure sponsored 'Active Wellbeing Week' (AWW), set up to help individuals feel the benefits of a more active lifestyle.

People who exercise regularly have a lower risk of developing many long-term chronic conditions and physical activity can also boost self-esteem and reduce the risk of stress and depression.

Abbey Wood, DM Gosport, Yeovil and DM Beith all staged events between July 1 and 5 so staff could get involved and understand the benefits for themselves.

MOD Abbey Wood supported by Amey gym team ran taster fitness classes for people to enjoy, as well as

lighter options such as beginner yoga classes and daily nature trail walks.

At DM Beith there were activities across site including gym classes, karate, dieting advice and a football tournament. DM Gosport staged circuits, lunchtime walks and 'chairyobics', while Yeovil staged beginner Jive classes and lunchtime runs.

Sarah Enos, HR Employee Wellbeing SME and organiser of AWW, said: "It was great to see DE&S people enjoying the opportunity to try out different ways of being active as well as making pledges to make some positive and sustainable lifestyle changes. A big thank you to CAN colleagues and all others who supported the AWW activities".

A DE&S graduate who started running just seven months ago is running almost 200 miles from Leeds to Bristol in just four days to raise money for charity.

Tim Griffiths only started running when he arrived at DE&S and was encouraged by his team to go on lunchtime runs of about three or four miles.

While this new-found hobby may have inspired some of us to sign up for a 10k, Tim's first ever race of choice was an ultramarathon measuring 33 miles.

Incredibly, he finished 20th out of 440 competitors in just under five and a half hours and has now set his sights on another, even more gruelling challenge.

He will run from Leeds to Bristol, with stops in Buxton, Wolverhampton and Tewkesbury, in four consecutive days, covering an average of 47 miles a day.

This titanic effort, between September 7 and 10, is aimed at raising at least £750 for the Campaign Against Living Miserably, a charity which offers men support and information

when they're down or in crisis.

Tim said: "Raising awareness about men's mental health and getting people talking is the whole reason behind this run. If I can raise enough money to help even one person, I'll be happy."

www.justgiving.com/fundraising/tim-griffiths7



A member of the Defence Munitions head office in Warwickshire tasted success alongside her beloved Alaskan Malamute in a unique sporting pastime.

Laura Fennell, a Logistics Operations Planning Manager, has taken part in Canicross – cross country running with a dog – for the past four years.

The event originated in Europe as off-season training for sled-dogs but is now a stand-alone sport where dogs wear a specially designed harness and are connected to a waist belt on the runner.

This year Laura, with five-year-old Maya, succeeded in winning the Open Female class in the CaniX National Championship, having accumulated the most points over the UK-wide 33-race series which culminated at Cannock Chase in Staffordshire.

Laura said: "It's about having fun with your dog and improving the fitness of you both regardless of how fast you are."

"We are now training hard for next season to hopefully improve our times. I have also entered a triathlon with Tri-Dog so we need to work on the swimming and bikejor (riding a bike with your dog or with your dog pulling it along) element as well."



Wildcat team commit to DE&S@21 vision

The Wildcat delivery team at Yeovil have held an event to underline their commitment to placing the DE&S@21 vision at the heart of their business and energise members of the team.

The Wildcat@21 Launch Event included a presentation around DE&S@21, an interactive behavioural preference exercise, a photo with the first Wildcat modified to carry the Future Anti-Surface Guided Weapons and a team lunch.

The launch event followed significant work behind the scenes that had resulted in a new team vision which is aligned to the key DE&S@21 themes,

as well as a route-map – to which team members have contributed – in order to make Wildcat an even more effective team.

Captain Mark Langrill, Wildcat Delivery team leader, said: "The launch of Wildcat@21 was an opportunity to bring DE&S@21 to life in terms that relate personally to everybody in the Wildcat delivery team, and to draw on the team's wealth of ideas to ensure that our change route map is as good as it can be and has their buy-in. I was delighted by the enthusiasm that everyone in the team showed towards the event."



MOTTO the MOD Lottery April winners

- £10,000** John Colvan, Helensburgh
- £2,500** Simon Eden, Corsham
- £1,000** Tracey Lee, Abingdon
- £500** Susan Plimmer, ABW
- £250** Jacqueline Merritt, London
- £100** Diane Galley, Liverpool
- Andrew Shaw, Manchester
- Oliver Morris, ABW
- Sophie Thomson, ABW
- Sharon Dewstowe, Nottingham
- Graeme Slaymaker, ABW
- Nicky Phillips, ABW
- Michael Pitman, DSTL
- David Hastings, ABW
- Geoff Dixon, Catterick
- Sheldon Eaton-Campbell, ABW
- Judith Daniels, ABW
- Romaine Trigg, ABW
- Amanda Clements, ABW
- Graham Wilson, Colchester
- John Summers, ABW
- Peter Hale, Harrogate
- Robert Taylor, Cheadle
- Anthony Cain, Lincoln
- David Gibbs, Portsmouth

Last month's missing word was:

Portishead

Word Search

- | | | |
|-------------|-------------|---------------|
| Active | Improvement | Squadron |
| Awards | Landmark | Survivability |
| Canicross | Laser | System |
| Contract | Leadership | Typhoon |
| Development | Navy | Warrior |
| Engineer | Pilots | Wellbeing |
| Frigate | Poseidon | Wildcat |

Find which word or name is missing from this wordsearch.

Note - they may appear vertically, horizontally, diagonally, forward or backward.

G R U F R L D E R X W S Y S T E M N
 Y G E E R T I D V A F T E N P L L X
 E M S E J I H M R I I E M A D B E O
 S H Z A N L G R P L T U E V P R A K
 D N Y L O I I A I R Q C S Y C T D R
 R U Y M X O G B T Y O T A A R Y E A
 A W G R R P A N N E O V N G D P R M
 W I C R L V Y O E L O I E I Q H S D
 A D Z M I A D U I A C P L M F O H N
 Q B S V G I R P V R B K V A E O I A
 Y B R D E V E L O P M E N T S N P L
 N U E S Z I X S Q U A D R O N E T X
 S Q O D R E S T A C D L I W C B R H
 R P Y U O R W G N I E B L L E W L J

Case Study

Kelly James, Land Equipment Project Manager within DE&S, gives her insight into some of the benefits of working for the organisation

Name:

Kelly James

Job title:

Land Equipment Project Manager

How long have you worked for DE&S?

13 months on placement as a Project Controller and I have recently returned in July 2019 as a Project Manager.

Why did you choose to pursue a career in DE&S?

Members of my family have a military background, therefore I was immediately interested in the idea of assisting the armed forces and ensuring they have the best equipment to aid them in their work. On placement year, the possibility for progression and growth within the business was made clear, encouraging me to start my career here once I'd finished university.

What does your role entail?

As a project manager, I am responsible and accountable for the project I am working on, ensuring I adhere to cost, time and performance parameters. I lead all activities throughout the equipment life cycle, delivering a new capability that fulfils the customers' requirements.

What are the opportunities to develop and progress within your function?

Coming in on the intern scheme allowed me to develop relationships with fantastically supportive members of staff that has allowed me to return as a project manager. There are numerous training

courses to aid development in the Project Management function. The Association for Project Management's Practitioner Qualification is one that interests me.

What do you most enjoy about your job?

Meeting and building relationships with colleagues and stakeholders. In my time at DE&S, everyone I have met has been extremely welcoming, often going above and beyond to help me understand aspects of the job, as well as providing support through various means.

What's your ambition?

As I am a new project manager, I strive to fully understand the function, and would like to be promoted. I would also like to get involved in holding events for DE&S, sharing my positive experiences with a younger generation and displaying a future career option for them.

What's your greatest achievement to date?

Delivering all required artefacts for the sign off of Toolkits 1 and 2 (these provide tools and techniques to help project teams embed the DE&S Way as well as new ways of working and enabling their progress to be monitored). I did this as a project controller on placement year and found it very rewarding.

Why would you recommend DE&S to others as a great place to work?

Extremely welcoming staff teams as well as an inclusive environment. Senior members of staff have always shown an interest in my work, displaying our supportive atmosphere, and the opportunities for career growth are fantastic.

What are the social benefits of working for DE&S?

DE&S has a brilliant approach to flexible working which benefits someone like me with an ongoing medical issue. This has allowed me to adapt where necessary and continue to deliver outputs. The onsite gym and sports activities are versatile, and the discounts we receive are a huge bonus.



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Bristol | £30,000 - £43,000pa | Level PII

Estimated timeline: closing date 18/08/19

Post type **Permanent**

Job Description: Acting as an expert within your area, you will have the opportunity to look at the wider picture and advise senior colleagues on strategic issues such as on resourcing options for future tools development and on the streamlining of tools and services. Duties may include but not be limited to:

- Day to day management of all digital service delivery;
- Oversee the implementation of the information technology infrastructure library (ITIL) process and procedure;
- Integration of all service management practices in the delivery of IT services to customers;
- Engaging with cross-functional teams to prioritise and integrate process, tools and service development;
- Engaging with suppliers to ensure tools and services are developed in accordance with the agreed development programme

Senior Information Assurance Manager SDA

Bristol | £42,000 - £62,000pa | Level PI

Estimated timeline: closing date 25/08/19

Post type **Permanent**

Job Description: The role is a highly experienced/specialised SME responsible for leading Information Assurance, Audit and Systems Accreditation and providing strategic support across the Defence Nuclear Enterprise, within both the SDA and the new overarching DE&S/SDA IM&IT functional area, and must be prepared to advise at Deputy Head, 1* & 2* levels.

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"Senior members of staff have always shown an interest in my work, displaying our supportive atmosphere"

Kelly James, Land Equipment Project Manager within DE&S

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