

ROYAL NAVY

ENGINEERING

Your career guide



YOUR ROLE | THE PEOPLE YOU'LL MEET | THE PLACES YOU'LL GO





ENGINEERING IN THE NAVY

Our world-class kit is only as good as our technicians and engineers keeping it in top working order. Whichever level you join at you can be sure of the best continuous training, meaning you can tailor your career to meet your own goals and ambitions.



WHAT IS THE ENGINEERING BRANCH?

The engineering branch is split into three specialisations: Air, Marine and Weapons. Together they are responsible for the maintenance and availability of all naval equipment. They care for a multitude of equipment, from sensitive electronics to gas turbines and nuclear weapons. Being part of the engineering branch allows you to be responsible for some truly incredible kit.

AIR ENGINEERING

As a Air Engineer you will be a central part of the Royal Navy's aviation capabilities, getting hands-on with the F35B Lightning Stealth Fighter, Merlin Mk2 Submarine Hunter, Merlin Mk4 Commando Helicopter or the Wildcat Maritime Attack Helicopter. You can develop your engineering skills and specialise in Avionic or Mechanical technology. You'll need to use all of the knowledge you gain in training, to find innovative solutions to complex problems, often under pressure.



MARINE ENGINEERING

Marine engineers are responsible for all non-weapon related electronics and mechanical systems. This means you'll be working on the ship's hull, engines, electrical, fuel, hydraulic and fire fighting systems. Whilst at sea, the ship's on-board workshops have everything you'll need to repair complex parts and even make new ones. On a submarine, you'll have the extra challenge of maintaining some of the world's most technically advanced and highly-classified nuclear reactor equipment. You'll also look after vital water purification, air-conditioning and other specialist equipment that allows your submarine to stay underwater for prolonged periods.



WEAPON ENGINEERING

Technology is at the heart of everything we do. On ships and submarines, the weapon engineering department maintains communications, sensors, weapons and networked systems. As well as the missiles, torpedoes, guns and other weapons, you'll take charge of the electronic equipment used to detect submarines and the air surveillance radar that spots potentially hostile ships, missiles or aircraft. On a submarine, you could work with conventional weapons or Trident missiles, the UK's strategic nuclear deterrent. The kit you'll be working with is highly sophisticated, generally worth millions of pounds and often highly classified.



RATINGS WHO WE'RE LOOKING FOR

- Quick thinkers with a passion for working with the latest equipment and technology
- A problem solver who can work well as part of a team
- Enthusiasm for fixing and maintaining electronic and mechanical systems
- Irrespective of your qualifications, there are engineering roles to suit most individuals with an appetite for technology

Joining

As a minimum you will need to complete a:

- Recruit Test and interview at your local Armed Forces Careers Office (AFCO)
- Telephone call with a triage nurse to prepare you for medical
- Medical and Eye Test
- Pre-Naval Fitness Test
- Pre-Royal Navy Acquaint Course (RNAC)

Life as a Technician

Being in the Royal Navy means getting stuck in from the start, you'll develop skills and gain qualifications you never thought possible. You'll work on world-class kit; get world-class training and have the opportunity to travel the world all in a day's work. It's a career built around you, with skills that stay with you for life.

Benefits

- Competitive salary
- Six weeks paid holiday, plus public holidays
- Access to superb sports facilities
- Free medical and dental care
- Additional pay for time at sea
- Life-long learning – from GCSEs to Masters level qualification
- Professional accreditation paid for by us



WHICH JOB AM I MOST SUITED TO?

I have no qualifications / I attained my GCSEs

You can join us straight after school and hop onto one of our Apprenticeship Schemes. Apprenticeship opportunities are available for all our Engineering Technician roles, allowing you to earn while you learn.

I already have A-levels / Level 3 Diploma

If you feel like university isn't for you, we have the perfect roles to give you responsibility from the get go. Our accelerated schemes are best in class with a starting salary of over £33,000.

To find out more call 0345 602 0242

ENGINEERING RATING JOBS

AIR ENGINEERING TECHNICIAN (AET)

ACTIVE ON:



As an Air Engineering Technician, you're vital to keeping our airborne missions on track. That means working with some of the most advanced aircraft on the planet, like the F35B Lightning Stealth Fighter, the Merlin Mk2 Submarine Hunter, the Merlin Mk4 Commando Helicopter or the Wildcat Maritime Attack Helicopter. You'll carry out inspections and maintenance before and after each flight. You will have the opportunity to serve on the world's most advanced ships and aircraft carriers deploying all around the world.

Age: 16 to 39.

Nationality: British or British dual national.

Qualifications: No specific qualifications are needed for this job.

Salary: Starting at over £20,000

ENGINEERING TECHNICIAN (MARINE)

ACTIVE ON:



In this role you are pivotal to day-to-day operations as you get your hands on some of our largest and most vital kit. If you're mechanically minded, and like fixing things, this is the opportunity to do just that in challenging environments all over the world. You might be getting your hands dirty on the engine of a warship, providing the power that keeps our ships moving or working below the waves on the nuclear reactor of one of our submarines. Wherever your career takes you, you'll always be on course with the first-class engineering training we offer.

Age: 16 to 39.

Nationality: British, Irish, Commonwealth or British dual national (Ship) or British national for Submarines.

Qualifications: No specific qualifications are needed for this job.

Salary: Starting at over £20,000

ENGINEERING TECHNICIAN (WEAPON ENGINEERING)

ACTIVE ON:



Want to work on the latest technology and get your hands on some of our most sophisticated systems? This role will provide all the challenges you're looking for, every day. You'll need to thrive on working with the most advanced kit on the planet, and be prepared to learn new skills on the job. From completing essential maintenance on a state-of-the-art Weapons, RADAR, SONAR, Communications and IT hardware, to working in the UK's nuclear deterrent submarine, you'll have the opportunity to operate at the highest level of the engineering industry while travelling the world.

Age: 16 to 39.

Nationality: British or British dual national (Ship) or British national for Submarines.

Qualifications: No specific qualifications are needed for this job.

Salary: Starting at over £20,000

ENGINEERING TECHNICIAN (COMMUNICATIONS INFORMATION SYSTEMS)

ACTIVE ON:



Being an Engineering Technician Communications and Information Systems (CIS) Specialist means that you are always in the thick of the action working as an Online Network Engineer at the heart of every mission solving complex issues, enabling the secure exchange of mission critical and often upto Top-Secret information. It is your responsibility to administer and provide specialist communications and IT equipment including classified information and cryptographic material to guarantee Operational Capability is delivered to Command to achieve their mission. CIS Specialist personnel are critical in keeping warships and submarines communicating in the Battlespace via any means possible

Age: 16 to 39.

Nationality: British or British dual national (Ship) or British national for Submarines.

Qualifications: No specific qualifications are needed for this job.

Salary: Starting at over £20,000

ENGINEERING RATING JOBS

SURVIVAL EQUIPMENT TECHNICIAN

ACTIVE ON:



As a Survival Equipment Technician (SET), you will maintain vital lifesaving equipment to enable aircrew to operate safely. This equipment will help them to survive on Land, Sea or in the Air in peacetime or on military operations. You will also learn how to assist in the training of aircrew on land and sea in survival techniques. Commitment, enthusiasm and focus are essential for a job of this importance. However, with it comes with the satisfaction of knowing you're a crucial part of any mission, whether in peacetime or combat. Nationality: A British or Irish national, a Commonwealth citizen who has lived in the UK continuously for the 5 years prior to applying, or a dual national.

Age: 16 to 39.

Nationality: British or British dual national (Ship) or British national for Submarines.

Qualifications: No specific qualifications are needed for this job.

Salary: Starting at over £20,000

ACCELERATED APPRENTICE SCHEME (SUBMARINER)

ACTIVE ON:



Much like the other AA roles an Accelerated Apprentice (Submariner) will be fast tracked to working as part of one of our most elite teams. You can expect to be streamed as either a Marine Engineer Submariner (MESM) or a Weapon Engineer Submariner (WESM) and be paid to study, gain practical skills and maintain highly sophisticated equipment on our state-of-the-art submarines.

Age: 17 to 25.

Nationality: British or British dual national and British National for Submarines.

Qualifications: 3 GCSEs at grade 4 or above, inc English Lang, Maths and at least one science **PLUS** a National Qualifications Framework Level 3 Diploma in an engineering discipline **OR** at least 48 UCAS points in A Levels in Maths and STEM related subjects.

8 **Salary:** Starting at over £33,000

ACCELERATED APPRENTICE SCHEME (AIR, MARINE, WEAPON)

ACTIVE ON:



One of our exceptional fast track schemes that will see you join as a Leading Hand and fetching a salary of over £33,000. On completion of training you'll be given real responsibility to maintain equipment worth millions of pounds. You can apply to specialise in marine, weapon or air engineering. This is an opportunity unlike any other you can match in civilian life.

Age: 17 to 25.

Nationality: British or British dual national (Air & Weapons). British, Irish, Commonwealth or British dual national (Marine).

Qualifications: 3 GCSEs at grade 4 or above, inc English Lang, Maths and at least one science **PLUS** a National Qualifications Framework Level 3 Diploma in an engineering discipline **OR** at least 48 UCAS points in A Levels in Maths and STEM related subjects.

Salary: Starting at over £33,000

UNDERGRADUATE APPRENTICESHIP SCHEME (UGAS)

ACTIVE ON:



If you have a natural flair for engineering and leadership, this could be the perfect position for you. In reward, you will receive a fully funded degree, a very competitive salary and the opportunity to work on cutting edge technology across our fleet of submarines. Whether you're interested in mechanical engineering and feel at home with engines, propulsion systems and hydraulics, or are keen on technology, like electronics, computers and networks, this is an opportunity for you to work at the forefront of the engineering industry.

Age: 18 to 34.

Nationality: British or British dual national and British National for Submarines.

Qualifications: 5 GCSEs at grade 4 or above inc Maths, English Lang and at least one science **PLUS** National Qualifications Framework Level 3 Diploma in an engineering discipline **OR** at least 48 UCAS points in A Levels in Maths and STEM related subjects.

Salary: Starting at over £33,000

ENGINEERING RATING JOBS

DIRECT ENTRY TECHNICIAN

ACTIVE ON:



A role that caters for those who already have engineering experience under their belt but are looking for a new challenge. We value your experience and as such you will join as a Petty Officer and lead a team of Marine Engineering Technicians. You will build on your HNC (or equivalent) through a bespoke training package that will improve your career prospects both in the Royal Navy and industry.

Age: 18 to 39.

Nationality: British, Irish, Commonwealth or British dual national.

Qualifications: Level 4 qualification in Engineering at HNC (or equivalent) with 3 years experience in maintenance.

Salary: Salary of up to £36,800 depending on skills and experience.

LATERAL SERVICE TRANSFER

ACTIVE ON:



Serving in the Armed Forces means you already know that our work is so vital. It's the kind of career you can be proud of and your family can be proud of you for. We value the experience and specialist knowledge you can bring, and will provide a tailored package to transfer your skills into our engineering team, whether that's on a ship or submarine.

Age: Case by case basis, contact us for more information.

Nationality: British, Irish, Commonwealth or British dual national (for Marine Engineering) British or British dual national (for Air and Weapon Engineering). British national for Submarines.

Qualifications: Case by case basis, contact us for more information

Salary: Dependent on rank on transferring.

Please scan the QR below for more information on rates of pay for each job.



Visit royalnavy.mod.uk/careers to download the full details and latest rates of pay for each job.

OFFICERS WHO WE'RE LOOKING FOR

- Quick thinkers with a passion for leading a team of strong technicians and the latest technology
- A problem solver who can be relied upon to make key decisions when it matters most
- Managers that ensure you have the right skills and knowledge within your team for every situation

Joining

As a minimum any person wishing to join will need to complete a:

- Recruit Test and interview at your local Armed Forces Careers Office (AFCO)
- Telephone call with a triage nurse to prepare you for medical
- Medical and Eye Test
- Career discussion
- Pre-Naval Fitness Test
- Admiralty Interview Board

Life as an Engineer Officer

Being an Engineer Officer in the Royal Navy means leading the day-to-day maintenance of our most cutting-edge kit. Without you, vital operations wouldn't happen. You'll report directly to the Commanding Officer when there's a problem, and can be relied upon to make key decisions when it matters most.

Benefits

- Competitive salary
- Six weeks paid holiday, plus public holidays
- Access to superb sports facilities
- Free medical and dental care
- Additional pay for time served at sea
- Life-long learning
- Professional accreditation paid for by us



WHAT IS THE BEST WAY FOR ME TO JOIN?

I want to study for A-levels

You can apply for a sixth form scholarship where you'll gain funding for your studies at any chosen Further Education Establishment.

I want to go to University

Looking for bursaries? Then we've got you covered! You can apply for a Defence Technical Undergraduate Scheme (DTUS) place at one of 11 Universities across the UK: Aston, Birmingham, Cambridge, Imperial College, Loughborough, Newcastle, Northumbria, Oxford, Portsmouth, Southampton and Strathclyde. But if that doesn't take your fancy then we can offer you the same financial contribution for a UK University of your choosing. At £4,000 pa while you study you'll be hard pressed to get better financial support elsewhere.

I'm already qualified

For AE, ME and WE Officers we will give you a £27,000 Golden Hello (paid in 3 instalments as you achieve training milestones) to acknowledge the skills you're already bringing with you.

Visit royalnavy.mod.uk/careers to download the full details and latest rates of pay for each job.

ENGINEERING OFFICER JOBS

AIR ENGINEER OFFICER

ACTIVE ON:



As an Air Engineer Officer, you'll lead the people who ensure our aircraft are ready to take off at a moment's notice. A team of highly-trained Air Engineering Technicians will look to you for advice, guidance and support on a daily basis as they tackle a range of complex problems, in challenging environments, all over the world. You'll use your knowledge and expertise to guarantee the safety of our aircrew and the reliability of our aircraft. Without you, our planes and helicopters stay grounded.

Age: 17 to 39.

Nationality: British or British dual national.

Qualifications: 5 GCSEs at grade 4 or above inc English Language and Maths **PLUS** 72 UCAS points in 2 non-overlapping A-level subjects **PLUS** a degree in any Science, Technology, Engineering or Maths related subject will be considered.

Salary: Starting at over £27,000

WEAPON ENGINEER OFFICER

ACTIVE ON:



This role gives you the opportunity to lead a highly skilled team, guaranteeing the operational readiness of our vessels. The kit you'll work on is as cutting-edge as it gets and you'll get all the world-class training you need to manage the most complex of problems. You will lead experts in communications, IT, explosives and electronic sensors systems. From overseeing the missile launchers of a Type 45 Destroyer, to using your knowledge to keep a submarine undetected, you really are at the forefront of our vessel's activities.

Age: 17 to 39.

Nationality: British National for Submarines.

Qualifications: 5 GCSEs at grade 4 or above inc English Language and Maths **PLUS** 72 UCAS points in 2 non-overlapping A-level subjects **PLUS** a degree in IEng or CEng degrees accredited by ECUK, IoM or AoP.

Salary: Starting at over £27,000

MARINE ENGINEER OFFICER

ACTIVE ON:



For this role you'll need a keen interest in mechanical engineering and an ability to manage a highly skilled team. You'll work on some of our largest kit, receiving world-class training, as you oversee essential maintenance and repairs on-board a ship or submarine. From getting an 8,000 tonne Destroyer moving, to operating the nuclear reactor of a submarine, there are limitless opportunities for the mechanically minded. If you like getting your head around propulsion systems, large scale structures and electrical distribution, this is your chance to do it every day, all over the world.

Age: 17 to 39.

Nationality: British, Irish, Commonwealth British dual national (Ship) British or British National for Submarines.

Qualifications: 5 GCSEs at grade 4 or above inc English Language and Maths **PLUS** 72 UCAS points in 2 non-overlapping A-level subjects **PLUS** a degree in any Science, Technology, Engineering or Maths related subject will be considered. UCAS points applicable for DTUS/Bursary candidates only.

Salary: Starting at over £27,000

TRAINING MANAGEMENT OFFICER

ACTIVE ON:



Our people make the Royal Navy the force it is. They're our biggest asset. Being a Training Management Officer means supporting the development of officers and ratings all over the world. With the opportunity to work on ships, submarines or even with the Royal Marines, the world really is your oyster. You're the person who makes sure the naval service has the right skills, knowledge and qualifications to deal with all eventualities.

Age: 17 to 39.

Nationality: British, Irish, Commonwealth British dual national (Ship) British or British National for Submarines.

Qualifications: 5 GCSEs at grade 4 or above incl English Language and Maths **PLUS** 72 UCAS points in 2 non-overlapping A-level subjects **PLUS** an honours degree in any subject will be considered.

Salary: Starting at over £27,000

WHAT NEXT?

We hope this publication has given you an insight into the life and career opportunities open to you as an Engineer or Technician in the Royal Navy.

Joining the Royal Navy makes you part of something special. Part of a team. Protecting our nation's interests, all over the world. It's the kind of career you can be proud of, and your family can be proud of you for. Being an Engineer is a way to use your natural skills, and develop new ones that stay with you for life. It's not for everyone, but it could be for you. Could you be made in the Royal Navy?

VISIT

royalnavy.mod.uk/careers/roles-and-specialisations/branches/engineering

To check your eligibility or find out more about the joining process, preparation, training and choosing the right role for you.

CALL

0345 602 0242



This publication is for guidance only. The facts in it may change without notice and it is no form of legal contract. We explain details of length of service in the Armed Forces Careers Office and it will be shown in the contract. You may need to repay any bursary or sponsorship money if you do not enter service, or if you fail or withdraw from training.

We can change salaries, bursaries and sponsorship schemes, cadetships and job specifications, with or without notice. Major as well as minor changes may be involved. However, we make every effort to make sure the details in this publication are correct. This publication is not an offer by the Royal Navy to any person. Publications are prepared and printed several months before being distributed so cannot always immediately reflect changes in details or in some cases a particular offer.

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