



ENGINEERING

MARINE ENGINEERING UNDERGRADUATE APPRENTICESHIP (UGAS (MESM))

Joining the Marine Engineering (Submariner) Undergraduate Apprenticeship Scheme (UGAS (MESM)) means gaining all the skills you need to take your place in one of the Royal Navy's most elite teams. The training is intensive, because it needs to be. Not everyone can be part of a professional submarine crew. You need to embrace working in uniquely challenging environments, and have the ability to solve complex problems on some of the most advanced kit on the planet.

This is a tailored 8½-year career, which starts with a period of training and education. You'll be paid to study for a degree in Mechanical and Manufacturing Engineering, gaining practical skills, and using highly sophisticated equipment. After that, you'll spend time in active service. That might mean maintaining the nuclear reactor of a Vanguard Class submarine, or working on an Astute Class vessel where you'll be part of some highly classified hunter killer operations.

01

Who we're looking for

- An interest in mechanics, systems engineering and electrical power
- A team player
- Commitment
- Enthusiasm
- Common sense
- Physical and mental fitness

You'll need a keen interest in mechanics, systems engineering and electrical power. Your education and training will be intense and you must be dedicated to learning and consolidating complex skills quickly. Strong teamwork is essential, and you need to be able to live and work in a confined space. Serving on board a submarine takes a special type of person, one who thrives on challenges and professionalism.

Why UGAS (MESM)?

- ▶ An accelerated scheme to become a nuclear engineer
- ▶ A fully funded BEng (Hons) degree in Mechanical and Manufacturing Engineering
- ▶ Starting salary of £31,100 rising to over £45,000 as your career progresses
- ▶ Get a £5,000 bonus when you earn your Dolphins - the mark of a qualified Submariner
- ▶ Gain additional submariner pay of at least £12 per day, increasing to a minimum of £22 when you're at sea
- ▶ Six weeks of paid holiday every year
- ▶ Travel the world
- ▶ Perform at the highest levels of the engineering industry

02

Qualifications and age

- You need to be aged 18-34 on entry
- Five GCSEs at grade C or better, including maths, English language and at least one science
- 160 UCAS points gained from Level 3 STEM qualifications (BTEC, A/A2/AS or equivalents) in an engineering discipline, or in maths and at least one in physical science, engineering or computing subject

03

Training

Your Royal Navy career begins with 10 weeks' Basic Training at HMS Raleigh, a shore base in Plymouth. The discipline, teamwork, organisational, firefighting and weapon handling skills you learn here will stay with you right through your career.

You'll then progress to basic submarine training. You will learn how all the machinery and equipment works, and how the crew operates the boat. Your nuclear engineering training will then start at HMS Sultan in Gosport. Here you will study topics such as:

- Electrical and mechanical engineering principles
- Equipment fault finding and repair
- Nuclear engineering theory
- Nuclear reactor operations
- Air purification

After that, you'll receive further specialist training at either Devonport or Faslane, before going to sea for the first time. At the end of training, there will be an exam to test your knowledge. When you pass, you'll earn your Dolphins - the mark of a qualified Submariner - and join up with your crewmates.

04

Skills for life

- An Advanced Modern Apprenticeship in Marine Engineering
- A Foundation Degree in Marine Engineering
- A BEng (Hons) Mechanical and Manufacturing Engineering

The Royal Navy will support you with world-class training throughout your career, helping you to learn and develop as a professional engineer. As you gain a number of internationally recognised qualifications, you'll be giving yourself an excellent start to life as a civilian. If you choose to extend your service and become a commissioned Officer, you may even have the opportunity to gain a Master's.

05

Promotion

You'll start your career as a probationary Leading Engineering Technician. Providing you meet your obligations under UGAS (MESM), you can expect to be advanced to Petty Officer Technician within four years.

Initially you're offered an 8½-year career with the option to apply to extend to 20 years. You may have the opportunity to serve beyond this, depending what you would like to do and the needs of the Royal Navy. At the end of the scheme you can either stay in the Service and seek further promotion, or leave with a BEng (Hons) degree, plenty of experience working with nuclear reactors, and no student debt.

06

Pay and benefits

- Starting salary of £31,100 rising to over £45,000 as your career progresses to Petty Officer
- Six weeks of paid holiday every year
- Help with housing and education
- Free medical and dental care
- Adventurous training opportunities
- Access to superb sports and fitness facilities
- One of the best pensions available

Not just a job. A way of life.

Being in the Royal Navy is a job like no other, with a life - and lifestyle - to match. You'll make friends for life, go to places you've never been and do things that dreams are made of. From the moment you join, you'll be part of a close-knit team that lives, works and relaxes together. On top of on-boat and onshore sports facilities, you'll also have the opportunity to go on adventurous training, which means anything from mountaineering, caving and parachuting, to jungle expeditions.

It's a life without limits. Its only limit is how much you want to live it.

FIND OUT MORE



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