On the waterfront at Annapolis —

growth opportunities for research engineers and scientists

The U. S. Navy Marine Engineering Laboratory conducts RDT&E in naval shipboard and submarine machinery and auxiliary systems; electronic, propulsion, control, etc. In addition to developing basic improvements in performance and reliability, the Laboratory concentrates on the silencing, new concepts in energy conversion and control, ways to minimize friction and wear, special operating machinery for deep-diving vessels, and tough, resistant naval alloys to meet all ocean environmental conditions.

The Laboratory buildings—now more than 50 of them—house some of the finest research, experimental and evaluation facilities of the nation. With the aid of high-speed computers, electric power generators, location and shock test systems, metal composition analysis instruments, cryogenic storage and handling facilities, physical and chemical labs, and complex instrumentation for measuring strain, stress, resistance, accelerations, velocity, performance, and reliability, the Laboratory produces research results, an ideal industrial park, and include special facilities for real experimental work.

And the locale is ideal. Washington, Baltimore and the ocean racism are no more than one hours drive. Annapolis—still the state capital, and offers small-town living with metropolitan accessibility. Urgent new projects require additional engineering and scientific personnel with BS, MS, and PhD degrees.

Typical Duties of Engineers and Scientists at MEL:

Mechanical Engineers—Research and development work in naval shipboard and submarine machinery and auxiliary systems; electric, propulsion, control, etc. Various fields of research including: gas and fluid flow, heat transfer, stress, vibration, and shock test stands, metals research, experimental and evaluation engineering.

Chemical Engineers—Research and development work in chemical and electrochemical processes; gas and fluid flow systems and equipment; air and water treatment systems; semi-conductor materials; lubrication; fuel systems and processes; filtration; hydraulic fuel systems. Physicists—Application of physical principles to the areas of sound, electronics, optics, electronics, instrumentation, or electricity and magnetism.

Chemists—Engaged in application of chemical principles to the areas of water treatment and purification, corrosion and deposition in naval equipment, the development of techniques for purifying and testing, and research in chemical instrumentation. Mathematicians—Apply the techniques of mathematics to the solution of scientific and engineering problems in the support of research and development programs of the laboratory. Analyze physical problems, and formulate solutions for numerical analysis and computation. Program for solution of these problems on computer or electronic calculator.

Metallurgists—Research and development work in the area of new or improved alloys and similar materials for ship hull and machinery applications involving considerations of physical and mechanical properties. Design against the problem of mechanical and thermal cycling, corrosion and fatigue characteristics, and weldability.

Salaries range from $6,387 to $10,927 per year, depending on type of degree and scientific background.

Appointees acquire the benefits of career employment. They are given the opportunity to progress in their technical careers, and advancement in the field, and are eligible for scholarships, stipends, and other education opportunities.

Here you are at the start of your career, but those who are really interested in a long-time career will find a wealth of opportunities for advancement.