After graduation, what? Will you begin your career as an engineer or scientist or return to school for an advanced degree?

You can do both at NOL

If you are an engineer in the top third of your class or a scientist in the top quarter of your class, NOL offers you the opportunity to begin your career in one of the world's great laboratories, and, at the same time, go ahead with your plans for graduate study.

From the very beginning, new staff members have an opportunity to contribute directly to significant projects... to be part of an organization where groups are small and emphasis is on the individual.

NOL offers you a graduate study program that is one of the largest and most productive programs in the country. Each year members of our professional staff receive M.S.'s or Ph.D.'s through this program. NOL has a significant advantage in its proximity to the University of Maryland. Many NOL staff members hold permanent part-time positions on the Maryland faculty, and graduate level courses are taught at NOL every semester. Maryland also offers many courses on its own campus—only minutes away—at times which are convenient to and keyed to the special requirements of NOL.

NOL is a laboratory in the true meaning of the word, and one of the largest and best-equipped laboratories in the world. It is the nation's leading R&D establishment for Anti-Submarine Warfare (ASW), the Navy's principal high velocity aeroballistics activity, and a leader in the development of new air and surface weapons. The spectrum of aeroballistics activity, Anti-Submarine Warfare (ASW), the Navy's principal high velocity aeroballistics activity, and a leader in the development of new air and surface weapons. The spectrum of research at NOL ranges from nuclear effects to acoustics to explosives and materials. At NOL, weapons development is carried through from inception to design to prototype test and development. Since 1950, NOL has completed 209 new weapons and devices such as SUBROC, nuclear depth bombs, mines, projectile fuzes, underwater detection systems, and components and design data for POLARIS, TARTAR, TALOS, TERIER, ATLAS and TITAN missiles. A civilian staff of over 3,000 includes more than 1,000 professional engineers and scientists—experts with national and international reputations. Extensive and unique facilities include wind tunnels operating to Mach 17, hypervelocity ballistic ranges, the world's most exceptional hydroballistic facility, shock tunnels, 300 ton centrifuge... multi-million-dollar experimental facilities.

Here is your opportunity. Each year, NOL interviews outstanding engineering and science graduating students. Selects them to its beautiful 875-acre "campus" (the front yard is a golf course) in the rolling hills of Maryland near the Nation's Capital. Puts them through an optional one-year professional development course with rotational assignments to various areas within the Laboratory to prepare them for permanent assignments.

**NOL ACADEMIC STUDY PROGRAMS**

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<th>PROGRAM</th>
<th>COMPETITION</th>
<th>ADMITTANCE</th>
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<tr>
<td>Part-time Graduate Study</td>
<td>Open to all qualified employees.</td>
<td>Approved by line management.</td>
<td>Refund of tuition and fees if course grade is &quot;D&quot; or lower. Travel time for attendance.</td>
</tr>
<tr>
<td>Graduate Work Study</td>
<td>Recent college graduates in certain engineering &amp; scientific fields.</td>
<td>Selected by Personnel Officer... admission to local graduate school for M.S.</td>
<td>Full salary, tuition, fees... 2 days each week devoted to study and class for 2 years maximum.</td>
</tr>
<tr>
<td>Intermediate Graduate Study</td>
<td>Recent college graduates in certain engineering &amp; scientific fields.</td>
<td>Selected by Personnel Officer... admission to graduate school... on honors program.</td>
<td>Full tuition, books, fees... travel per diem &amp; 1/2 GS-7 salary... over $3800... 2 semesters full-time.</td>
</tr>
<tr>
<td>Advanced Graduate Study</td>
<td>Scientists &amp; Engineers, grade GS-11 and above.</td>
<td>Selected by NOL Training Committee.</td>
<td>Full tuition, books, fees, travel per diem &amp; 1/2 GS-7 salary... over $3800... 2 semesters full-time.</td>
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**NOL NEEDS:**

Aerospace Engineers or Hydroballastists—design studies of high-speed, high-performance re-entry systems, basic problems in theoretical and experimental aerodynamics, aeroballistics and hydromechanics; and aerodynamic design and development of hypervelocity wind tunnels and ballistic ranges.

Mechanical Engineers—conceptual design and development of warhead safing, arming and target-detecting devices for tactical and strategic missiles, underwater weapons, vehicles, structures, and mechanical or electromechanical time and motion-sensing mechanisms.

Electronic Engineers—design, development and evaluation of underwater communications and detection systems, weapons guidance systems, instrumentation for weapons evaluation, aeroballistics research, and performance of new feasibility experiments.

Chemical Engineers and Chemists—for research and development pertaining to high-energy propellants and pyrotechnics; high polymers; molecular and crystal structure; electrochemistry; high-temperature, high-pressure chemical equilibrium studies; and the thermodynamics of energy reactions.

Engineering Physicists and Physicists—theoretical and experimental research in a wide range of areas such as signal processing, infrared radiation, acoustics, and semi-conductive materials, and detonation physics and plus weapons system development and studies.

An NOL representative will be on campus:

**NOVEMBER 16, 17, 1967**

Contact your Placement Office for interview.

**Summer Professional Employment**... for all senior graduate students and graduating seniors.

**U.S. NAVAL ORDNANCE LABORATORY**

WHITE OAK, MARYLAND