

*During 1963 . . .*

## ATOMIC ENERGY OF CANADA LIMITED

Chalk River, Ontario

has opportunities at all levels of education in the following fields:

### BIOLOGY—

Genetics, microbiology or population statistics, biochemistry or biophysics for research work in radiation biology.

### PHYSICS—

Fundamental research including experimental and theoretical work in low energy nuclear physics structure of solids and liquids, space studies (cosmic rays), advanced reactor theory. Applied research in radiation counter development, reactor instrumentation and control systems, data processing systems development, studies of materials in a reactor environment and computation studies. Development work on new reactor concepts such as fog cooling. Operational work in connection with the large research reactors.

### CHEMISTRY—

Non-routine analytical work concerned with chemical problems arising from the reactor power development programs. Chemical radiochemical, neutron activation and radioactivity measurement techniques are exploited and a variety of modern instrumentation is used. Other types of work for graduates are available.

### METALLURGY—

Design and laboratory scale fabrication and testing of ceramic and metallic type fuels suitable for power reactors followed by their irradiation, examination and interpretation of results; study of radiation damage to reactor materials and liquid gas temperatures, diffusion using radioactive tracers, thin film and replica microscopy, metallurgical and ceramic studies of the heavy elements and X-ray diffraction investigations; corrosion research, mechanical tests and metallography to determine effect of reactor environments on new materials.

### ENGINEERING—

Research, design, operations and maintenance opportunities. Electrical, mechanical and chemical engineers and especially graduates in engineering physics are required. (Please see the booklet entitled "The University Graduate and Atomic Energy of Canada Limited" available at your University Placement Office).

**DURING THE SUMMER OF 1963**, opportunities similar to those listed above are available to students in their junior or senior years and to those in post graduate courses.

**PREFERENCE WILL BE GIVEN TO** applications for continuing and summer employment received in CHALK RIVER by 30 NOVEMBER, 1962.

All details available at your University Placement Office.

*Interviews will be held at the University of Alberta on **JANUARY 21 and 22, 1963***



# IMPERIAL OIL LIMITED

Has a limited number of vacancies in 1963 in the following departments:—

## MARKETING

(Sales, Merchandising and Operations)

Students Graduating in:—

1963

CIVIL ENGINEERING  
CHEMICAL ENGINEERING  
MECHANICAL ENGINEERING  
COMMERCE  
ARTS GENERAL  
SCIENCE (GENERAL)

1964

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## MANUFACTURING

(Refining)

Students Graduating with B.Sc. or  
M.Sc. in:—

1963

CHEMICAL ENGINEERING  
MECHANICAL ENGINEERING

1964

CHEMICAL ENGINEERING  
MECHANICAL ENGINEERING  
COMMERCE

## PRODUCING

(Production and Exploration)

Students Graduating with B.Sc. or  
M.Sc. in:—

1963

CHEMICAL ENGINEERING  
PETROLEUM ENGINEERING  
ENGINEERING PHYSICS  
HONOURS GEOLOGY  
GEOPHYSICS  
ELECTRICAL ENGINEERING  
HONOURS MATHEMATICS  
HONOURS CHEMISTRY

1964

CHEMICAL ENGINEERING  
PETROLEUM ENGINEERING  
HONOURS GEOLOGY  
ENGINEERING PHYSICS  
GEOPHYSICS  
ELECTRICAL ENGINEERING

In addition to the above, vacancies are available in Research for Ph.D. or Post-Doctorate students in Chemistry and Chemical Engineering.

Our Representative, MR. R. G. INGS, will be on the campus on

**NOVEMBER 19th and 20th**

to make interviewing appointments for students enrolled in the above courses who are interested in filling the advertised vacancies.

MR. INGS will be located in the N.E.S. Campus Placement Office.