



Information Brochure

MASTER OF SCIENCE PROGRAM IN
PETROLEUM GEOSCIENCES AND ENGINEERING (PGsE)

INTRODUCTION

Petroleum Geoscience and Engineering (PGsE) concerns the science in finding oil and gas resources and exploiting them in an environmentally and economically sound manner. The program combines topics such as mathematics, geology, engineering and applied earth sciences. Students master a combination of geosciences and engineering for the specific needs of petroleum exploration and production.

The Petroleum Geosciences and Engineering program envisions:

- Offering an interdisciplinary Master's degree in which petroleum geology and engineering are central, with a choice of one of the specializations: Petroleum Geology, Petroleum Engineering or Offshore Engineering.
- Education to professionals who can function at an academic level of work and thinking, whereby a solid foundation has been laid for employment as a starting geoscientist or engineer, mainly in the professional field onshore and offshore Suriname and the Caribbean.
- Education to professionals who have knowledge of current developments within the field of petroleum exploration and exploitation, both onshore and offshore, with a focus on Suriname and the Caribbean.
- Teaching lifelong learning skills that enable the graduate to continue his / her education in scientific research or to further professionalize within the field.

ADMISSION REQUIREMENTS

Academic Geoscience & Mechanical Engineering BSc. degree holders including the following leveling courses:

- **For Academic Geoscience BSc. the courses:** Physical Geology, Sedimentology, Structural Geology, Petroleum Geology, Petroleum Exploitation for Mechanical Eng. BSc. holders.
- **For Academic Mechanical Eng. BSc. the courses:** Numerical Analysis & Technical Calculus, Differential Equations for Geoscience BSc. holders.



DURATION OF STUDY

The program consists of a three-year 120 ECTS part-time curriculum which is accredited by NOVA (National Institution for Accreditation). The Petroleum Geosciences and Engineering program provides common courses in the first year after which students will choose a specialization track in the second year. The three (3) specialization tracks are: **Petroleum Geology, Petroleum Engineering and Offshore Engineering**. In the second year, a field & engineering trip is conducted abroad. Geological outcrops & oil / gas field visits, as well as visits to oil and gas related companies will be conducted for a period of one week. In the third year students will focus on the integrated field development project and the individual thesis research, which results in the master of science degree.

CAREER PROSPECTS

95% of graduated students work in oil industry in the functions of:

- Production, Exploration & Reservoir Geologists
- Geo- & Petro-Physicists
- Production, Reservoir & Drilling Engineers
- Oil and Gas service providers (Wireline, Mud Logging etc.)
- Line Functions (Subsurface Team Leads & Managers)

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