Аэродинамика

Московский физико-технический институт (национальный исследовательский университет)

Присваивается степень или квалификация: **Диплом магистра по направлению 03.04.01 «Прикладные математика и физика»**

Язык обучения: **английский**
Форма обучения: **Очная**
Продолжительность: **2 года**
Возможность бесплатного обучения: **есть**
Стоимость: **400 000 руб. в год**

Страница программы на сайте вуза: https://mipt.ru/english/edu/master/aerodynamics

Куратор программы: **Дмитриев Денис Юрьевич**
Телефон: **84954084800**
E-mail: serokhvostov@phystech.edu

Master degree programme of the Department of Aeromechanics and Flight Engineering. This programme prepares students for professional positions in the aerospace industry, government, and business, it focuses on aeromechanics, control, propulsion and engineering problems of aircraft.

KEY ADVANTAGES:

- Fundamental approach;
- Modern methods;
- Lecturers are noted scientists;
- Actual problems of aerodynamics as MSc Thesis;
- Different activities, such as wind tunnels, flight simulator, flight training.

TEACHING METHODS:

The programme includes lectures, tutorials, and laboratories. During preparation of research projects students will obtain solid knowledge and skills within a chosen research topic.

STUDIED COURSES:

- Essentials of fluid mechanics;
- Aerodynamics of high-speed flows;
- Dynamics of viscous gas;
- Analytical methods in aeromechanics;
- Modern methods of theoretical fluid mechanics;
- The basics and applications of computational fluid dynamics;
- Computational aerodynamics;
- The numerical methods of aerodynamics for multidisciplinary optimization and design;
- Typical CFD problems;
- Gas dynamics of combustion;
- Unsteady aeromechanics;
- Physical foundation of the industrial wind tunnels tests;
- Aviation ecology;
- Aeroacoustics of aircraft;
- Turbulence (optional);
- Boundary-value problems of CFD (optional).

- Institut Polytechnique des Sciences Avancées.
- Embry-Riddle Aeronautical University;
- Beihang University.

Специализации в рамках данной программы