

Graduate Studies

The Department of Earth Sciences offers the following course- and research-oriented graduate degree programs:

- MSc in Geophysics, Tectonics, Sedimentology, Hydrogeology, and Geological Remote Sensing: two-year programs with 10 to 12 courses in the first year and a research thesis project in the second year.
- PhD in Geophysics: a four-year program with at least 6 courses in the first year, and a dissertation that is expected to result in papers publishable in peer-reviewed international journals.
- Direct PhD in Geophysics: a five-year program with direct entry from a bachelor's degree program with at least 12 courses in the first year and a half, and a dissertation.



Department Facts



Established since
2004



Faculty members
18



Alumni
216



Current students
45



444 Prof. Y. Sobouti Blvd.,
Gava Zang, Zanjan, Iran.
Po.Box: 45137-66731
international@iasbs.ac.ir
(+98) 24 3315 1000

**Institute for Advanced Studies
in Basic Sciences**
Zanjan, Iran



Department of Earth Sciences

www.iasbs.ac.ir



Departmental Overview

The Department of Biological Sciences started its activities by admitting Master's students in Biochemistry and Biophysics. We are now introducing another group to provide education and research in the field of Cell and Molecular Biology and would accept Master's students. We have also applied to the Ministry of Science Research and Technology (MSRT) to give us the license to accept PhD students in the above-mentioned fields. Another development that we are currently working on is to establish an interdisciplinary group named Computational Biology.

Areas of Study

- Ligand-Binding
- Folding and Stability of Proteins and Nucleic acids
- Protein Aggregation
- Amyloid Formation
- Biology of Cancer

Head of the Department:
Dr. Hamid Hadi Alijanvand

bio.info@iasbs.ac.ir

www.iasbs.ac.ir/departments/bio/



Research Facilities

The department has several instrumental and computational facilities at the service of its research programmes. Our main laboratories include:

- Biochemistry
- Biophysics
- Bacterial Cell Culture
- Eukaryotic Cell Culture
- Bio-informatics
- Protein Aggregation
- Fluorescence Microscopy
- Gel Electrophoresis
- Polymerase Chain Reaction (PCR)
- Spectrophotometer

Further facilities housed in other departments of the Institute including the departments of Physics and Chemistry are also available to our faculty and students.

We also have a range of general facilities to support student activities, including personal office space, computer lab, and meeting rooms.

