

Department of Geology (DG)

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The Research Infrastructure Centre of the Faculty of Natural Sciences and Engineering (NTF) offers research equipment of NTF that is also located at the Department of Geology.

Department of Geology

Aškerčeva cesta 12

Privoz 11

SI-1000 Ljubljana

Tel: +386 1 470 45 00

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E-mail: info@ntf.uni-lj.si

Equipment

Microscope Nikon Eclipse+

Responsible person:

- Miran Udovč
- Chair of Mineralogy, Petrology and Materials
- Tel: +386 1 4704 632
- E-mail: miran.udovc@ntf.uni-lj.si

Purpose of equipment:

- Polarising microscope for optic microscopy
- Determining the optical properties of minerals in transmissive and reflective light

Access of equipment:

- Equipment is available at the Department of Geology NTF, Aškerčeva 12, room 219
- Equipment rental is not possible. It is possible to work independently; users must be familiar with the microscope control. Use of the equipment must be requested in advance.

Price of equipment use:

- use of the microscopes for an experienced user is € 19.85 per hour.
- use of the microscopes for an inexperienced user is € 31.43 per hour.



Portable handheld X-ray fluorescence (XRF) analyser NITON (Thermo Fischer Scientific, USA)+

University of *Ljubljana*,
Faculty of *Natural Sciences and Engineering*



Research Equipment is (co)funded by the Slovenian Research Agency.



JAVNA AGENCIJA ZA RAZISKOVALNO DEJAVNOST
REPUBLIKE SLOVENIJE

Contact of responsible person:

- Ass. prof. Matej Dolenc, DrSc
- Department of Geology, Aškerčeva 12
- Tel: 031 53 03 88
- E-mail: matej.dolenc@ntf.uni-lj.si, smudut@siol.net

Purpose of equipment and additional information:

- Geochemical elemental analyses of different samples:
 - analyses of major and minor elements in sedimentary, igneous and metamorphic rocks
 - analyses of heavy metals in soils
 - analyses of alloys
 - analyses of precious metals (gold and silver purity)
 - analyses of toxic elements in food and plastic
 - field analyses (monitoring)

Access to equipment:

- Equipment is available at the Department of Geology, Aškerčeva 12, Room 220. Equipment rental or independent work is not possible because it needs a qualified technician (a course of radiation protection, medical certificate, personal dosimetry and training at the headquarters of Niton Europe in Munich, Germany).

Price of equipment use:

- Experienced user: 9.20 €/hour.
- Inexperienced user: 24.94 €/hour



XRD - X-ray diffractometer with graphite monochromator+

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- Chair of Mineralogy, Petrology and Materials
- Tel: +386 31 53 03 88
- E-mail: matej.dolenc@ntf.uni-lj.si, smudut@siol.net

Purpose of equipment:

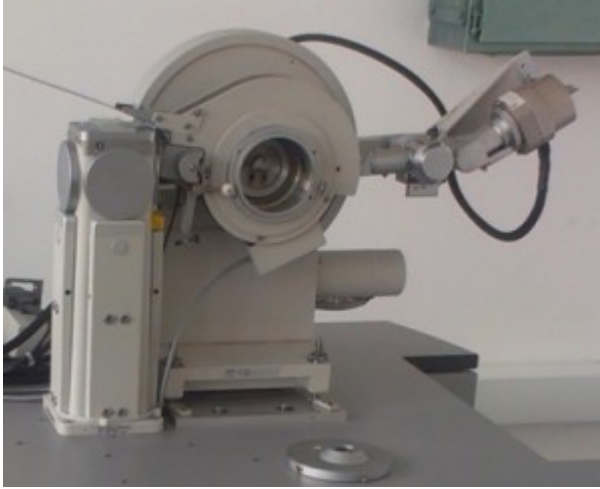
- X-ray phase identification of a crystalline material (geological and non-geological samples)

Access of equipment:

- Access to the equipment is possible only to technicians who have completed a course of radiation protection, personal dosimetry, medical certificate and the training course in Panalytical, Almelo.

Price of equipment use:

- price for trained user (without technician) is 30,00 € per hour
- price of technician is 30,00 € per hour



PISTON CORER core catcher for hard sediment (UWITEC, Austrija)+

University of *Ljubljana*,
Faculty of *Natural Sciences and Engineering*



Research Equipment is (co)funded by the Slovenian Research Agency.

Contact of responsible person:

- Prof. Andrej Šmuc, DrSc
- Department of Geology, Aškerčeva 12
- Tel: 01/47 04 604
- E-mail: andrej.smuc@ntf.uni-lj.si

Purpose of equipment and additional information:

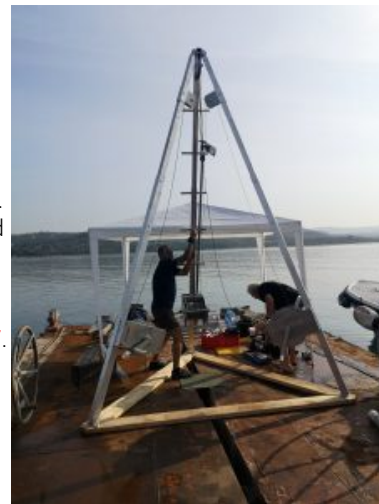
- Sampling of unconsolidated lake and sea sediments up to a depth of 140 m. Sampling with a piston core is performed from a raft. PVC pipes 2 m long and 9 cm in diameter are used for sampling, which allows to capture a core up to 2 m long with one maneuver.

Access to equipment:

- Equipment is available at [the Department of Geology, Aškerčeva 12, LAB M7](#). Equipment rental or independent work is not possible without qualified technician from FNSE.

Price of equipment use:

- Experienced user: 172.78 €/hour.
- Inexperienced user: 224.26 €/hour



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ANALYSETTE 22 NanoTec (FRITSCH) laser particle and image (DIA) sizer (FRITSCH, Germany)+

University of *Ljubljana*,
Faculty of *Natural Sciences and Engineering*



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Contact of responsible person:

- Prof. Andrej Šmuc, DrSc
- Department of Geology, Aškerčeva 12
- Tel: 01/47 04 604
- E-mail: andrej.smuc@ntf.uni-lj.si

Purpose of equipment and additional information:

- Particle size determination (suspension and dry particles):
- wet particle size determination-use of different liquids (0.01 – 2100 μm)
 - dry particle size determination (0.1 – 2100 μm)
 - particle image analysis

Access to equipment:

- Equipment is available at the **Department of Geology, Aškerčeva 12, LAB M7**. Equipment rental or independent work is not possible without qualified technician.

Price of equipment use:

- Experienced user: 32.51 €/hour.
- Inexperienced user: 69.08 €/hour



T-RDI Stream Pro Flow meter +

University of *Ljubljana*,
Faculty of *Natural Sciences and Engineering*



Research Equipment is (co)funded by the Slovenian Research Agency.

Responsible person:

- prof. dr. Mihael Brenčič
- Chair of Applied Geology
- Tel: 01 47 04 523
- E-pošta: mihael.brencic@ntf.uni-lj.si

Purpose of equipment:

The equipment is intended for measuring flows in watercourses.

Dostop do opreme:

- Equipment is available at the **Department of Geology**. The equipment is available by arrangement with the operators or the equipment administrator. It is not possible to rent equipment without trained NTF operators..

Reservations: mihael.brencic@ntf.uni-lj.si

Access to equipment:

- Experienced user:
- Inexperienced user:

PELCON Automatic Thin Section Machine (PELCON, Denmark)+

University of *Ljubljana*,
Faculty of *Natural Sciences and Engineering*



Research Equipment is (co)funded by the Slovenian Research Agency.



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Contact of responsible person:

- Ass. prof. Matej Dolenc, DrSc
- Department of Geology, Aškerčeva 12
- Tel: 01/47 04 636
- E-mail: matej.dolenc@ntf.uni-lj.si

Purpose of equipment and additional information:

- for high quality thin and thick sections of rocks, sediments, soils, concrete
- aggregates used for optical microscopy, petrography, microstructure analysis, electronic microscopy, laser ablation, microprobe, etc.

Additional information:

- is a part of a combination machine, and no noise/pollution/spills during thin/thick section preparation
- constant-load drive moving the sample back and forth over the diamond
- ensures gentle and identical treatment
- Two-sided vacuum holder for both block (one side) and TS (opposite side)
- Automatic thickness control system
- Built-in thickness control accuracy at 1 micron level
- Required thickness is set before grinding
- Sample is operated non-manually
- Grinding stops automatically at set thickness
- Same thickness at large production series
- No pollution of 'grid' in your samples
- No relief of the final TS, no matter differences in hardness
- No differences in thickness, no matter differences in hardness
- Thin section of sizes up to 40mm×80mm
- Same focus on your microscope, as the surface is 100% plane
- Initial setting takes a total of 5-10 minutes

Access to equipment:

- Equipment is available at the Department of Geology, Aškerčeva 12, Room P6
- Equipment rental or independent work is not possible because it needs a qualified technician (a three days training of the headquarters of PELCON, Denmark and at least one year of expertise in TS preparation). All information: matej.dolenc@ntf.uni-lj.si

Price of equipment use:



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