

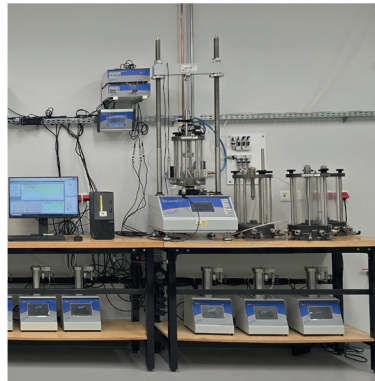


MARITIME INSTITUTE

GDYNIA MARITIME UNIVERSITY



OFFSHORE GEOTECHNICS DEPARTMENT



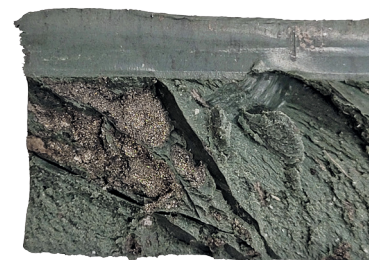
The aim of the **Offshore Geotechnics Department** and the **Geotechnical Laboratory** is to provide comprehensive services in the field of geotechnics, mainly for the needs of the offshore wind energy sector. The high quality of services provided is ensured by:

- modern research facility,
- wide range of laboratory tests,
- PCA accredited laboratory (AB 1770),
- experience in the infrastructure projects,
- extensive experience in documenting the geotechnical conditions of the southern Baltic Sea.

SCOPE OF LABORATORY SERVICES:

BASIC TESTING:

- soil description and classification ,
- particle density,
- bulk density,
- water content,
- Atterberg limits,



- particle size distribution (sieve and hydrometer method),
- minimum and maximum dry density,
- thermal conductivity of soil,
- electrical resistivity of soil,
- organic matter content,
- carbonate content,
- shear strength test (torvane and pocket penetrometer).

ADVANCE TESTING

- consolidation and compressibility test – incremental loading method,
- consolidation and compressibility test – CRS method,
- shear strength - direct shear (shearbox),
- shear strength - ringshear test,
- shear strength – direct simple shear (monotonic and cyclic).
- shear strength – triaxial test apparatus (monotonic and cyclic),
- triaxial test with Bender elements and on-sample transducers,

SCOPE OF DOCUMENTATION SERVICES

- geotechnical service of field and laboratory surveys, including marine static soundings CPTU,
- interpretation of geotechnical data,
- geotechnical service of marine soil sampling,
- documenting geological - engineering and geotechnical conditions,
- reporting.

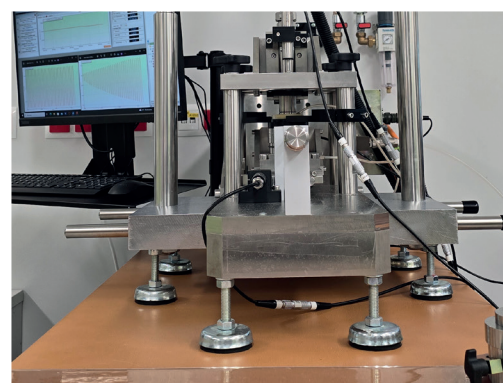
LABORATORY ACCREDITATION

The Geotechnical Laboratory of Offshore Geotechnics Department is accredited by the Polish Centre for Accreditation, No. AB 1770. The accreditation confirms that the Laboratory meets the requirements of the PN-EN ISO/ IEC 17025:2018-02 standard in relation to the test methods included in the scope of accreditation.



AB 1770

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