Expression of interest for research cooperation

Description of institution

Interested institution:	Cracow University of Technology (CUT)
Department carrying out the proposed research	**Department of prestressed structures** Institute of Building Materials and Structures Faculty of Civil Engineering
Address and webpage	Warszawska 24, 31-155 Cracow, Poland http://l-14.pk.edu.pl/index.php/en/
Contact person (name, e-mail address, phone)	Wit Derkowski, derkowski@pk.edu.pl

Research offer

Brief description of the department (key research facilities, infrastructure, equipment)

(up to 1000 characters)

We are a group of scientists and experts dealing with prestressed concrete structures and prefabricated structures. We test, analyse and improve the concrete structures as well as we develop and invent new structural solutions. Our investigation include individual structural elements, the phenomena important for a structural point view as well as connections of structural components and whole buildings in a natural working environment. Laboratory tests are conducted in a professional and certified laboratory on modern machines. The tests on building in-situ (during construction and in use) are realized with the modern system of transducers based on vibrating wire.

Scientific area

☐	Chemistry	☐	Social Sciences and Humanities
☐	Economic Sciences	X	Information Science and Engineering
☐	Environment and Geosciences	☐	Life Sciences
☐	Mathematics	☐	Physics

Research field

(up to 500 characters)

Areas of our research activity:

- precast concrete structures, especially hollow core slabs, railway pre-tensioned beams,
- prestressing strand-concrete adhesion,
- slab and structures prestressed with unbonded tendons,
- concrete and prestressed concrete pavements,
- post-tensioning of lightweight aggregate concrete.

The proposed research/project description

(up to 1000 characters)

Department of Prestressed Structures of Cracow University of technology is willing to pursue projects related to our research field and experiences. It concerns precast, pre-tensioned and post-tensioned concrete structures as well as physical phenomena important for construction work.

Additional information (key Persons and Expertise; additional trainings, research programme, other)

(up to 1000 characters)

Our team form scientists and engineers. We have an experience in realisation of large domestic and foreign research projects. Each of us has an engineering experience and is actively working with building industry. The result of our research work is several innovative design solutions and large size construction and unique forms.