The questions of complex approach to the formation of scientific and research factor at different stages of a training for specialists in Civil Engineering: Bachelors and Masters, including the formation of diploma project theme have been considered in the submitted report.

The below-mentioned positions are considered as constituent parts, affecting the formation of this factor, the importance of which has been emphasized many times in the materials on the Boulogne process:
- organization of educational process on both stages of studies distinguishing corresponding disciplines orientated at scientific and research technologies: students’ scientific and research work, principles of scientific and research methodology, intellectual property;
- wide usage of information technologies orientated, first of all, at providing both academic facilities (textbooks including electronic carriers such as electronic notes, manuals) and external electronic information;
- the most important role of scientific and research academic labs in the formation of the project theme, in conducting research, formation of tricks in scientific-and-research groups;
- the necessity of constant participation in students’ creative contests, all-Ukrainian and international olimpiads on disciplines and profession; in the contests of course and diploma works in students’ scientific projects and students’ scientific conferences;
- the constantly increasing role of students’ self-governing presented as students’ scientific organizations (Boards of young scientists, pre-student scientific and research schools and so on), actively participating in estimating scientific and research results and preparing corresponding underbacks and scholarships;
- providing students’ mobility and scientific probation in the partner-higher schools as an example of the realization of the given scheme, the students’ experience in participation on speciality "Civil Engineering" in research and project developing of the new constructive schemes actual work and the formation of monitoring original systems for the technical condition for wide span coverings for sport constructions, carried out by the students’ and employees of Donbass National Academy of Civil Engineering and Architecture within the time-frame of preparation to Euro-2012 (Donbass-Arena and Arena-Lviv stadiums), the working out of the project decisions for FC "Shakhtar" academy in Donetsk. In the course of realization of the set forth conception by the students groups under the supervision of experienced scientific workers and designers, the following directions for research have been chosen:
  a) at the stage of Bachelor training the conception for complex construction formation of FC "Shakhtar" in Donetsk has been chosen at different stages of studies the Students’ Group has worked out the whole complex of questions connected both with the city-building project substantiation and the search for rational constructive forms, calculations and planning its separate objects (covered football indoor arena with the capacity of 5000 spectators, the reconstruction of the old stadium" Shakhtar ” stationary covering over the eastern stand of the stadium under reconstruction;
  b) the working out of monitoring system for technical conditions of the main objects of a number of buildings and constructions, determing numeral indexes of the probable level of refusals, that is provided by the corresponding Ukrainian Normative papers for designing, erecting and exploiting unique buildings and constructions were carried out at the stage of Bachelor training.

Besides, identical tasks for other constructions, erected in Ukraine within the time – frame of preparation to Euro – 2012 (coverings over the stands of “Donbas - Arena” and “Arena - Lviv” stadium, airport terminal in Lviv) were being solved in other diploma projects carried out for gaining “master” level in education and qualification.
Some most complicated project tasks were solved with the participation of specialized scientific and research and project and design labs and engineering centres, and a part of these creative temporary groups consisted of students who were solving these problems.

Young scientists’ work was honoured with the Ukrainian Presidential Reward for young scientists “Research, work out and implementation of the new constructive forms of the stationary space coverings over the stands of Ukrainian stadiums, erected within the programme for preparation to Euro – 2012 is the confirmation of the efficiency of the considered system which has led to summarizing the results of scientific research, which had been started at the students’ level.

The considered approach of reinforcing the scientific and research factor while teaching Bachelors and masters is used both for civil engineering students and other specialists who are taught at our Academy.

The fact that besides the above – mentioned work, 5 more graduates of DonNASA were honoured with the Ukrainian Presidential Reward for young scientists within the period of recent years confirms that the chosen approach is correct:
- in the sphere of building materials for “Theoretical and Methodological synthesis grounds of organic bindings for obtaining long – lasting materials for road constructions”;
- in the sphere of Municipal Economy for “New technologies of Water Supplies and Sewerage: scientific and technological basis”;
- in the sphere of state management for “Theoretical and methodological bases of formation and development of the mechanisms for governing small business enterprises in Ukraine”. 