



FACULTAD DE INGENIERÍA  
PONTIFICIA UNIVERSIDAD CATÓLICA DE CHILE

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## SEED FUND 2016 – ND & UC

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### **Collaborative Engineering Research: UC and Notre Dame**

The College of Engineering at the Pontificia Universidad Católica de Chile (UC) and the College of Engineering at the University of Notre Dame (Notre Dame) intend to continue deepening and broadening their collaborative research and student exchange programs.

These will include programs in Electrical Engineering (EE), Chemical Engineering (ChE), Bioengineering (BE), Mechanical Engineering (ME), Aerospace Engineering (AE), and Computer Science (CS), in addition to the recently established dual degree PhD program among Civil and Environmental Engineering and Earth Sciences (CEEES) at Notre Dame and corresponding programs at UC in Electrical Engineering, Chemical Engineering, Biomedical Engineering, Mechanical Engineering, Computer Science, Transport Engineering, Civil Engineering and Construction Management, Structural and Geotechnical Engineering, Environmental Engineering, Hydraulics Engineering, Industrial and Systems Engineering and Mining.

### **Seed Grant Program**

Our aim is to strengthen a robust partnership between the two Colleges that will result in substantial center and institute initiatives at both the undergraduate and graduate levels, frequent student and faculty exchange, joint applications for research grants and contracts, participation in larger initiatives, and the creation of new programs that help to integrate and expand the research of the two Colleges.

The centerpiece of our programs to facilitate and enable research and collaboration is a seed grant program in which UC and ND faculty will jointly apply for \$25,000 grants to be expended over a 12-month period. These grants can be focused on either research and/or advancing engineering education in novel ways. These funds can be flexibly used for travel, supplies, support of visitors, seminars, and meals, partial postdoc, graduate student, and undergraduate student salary support, and up to ½ month of summer salary for faculty.

Suitable outcomes of the seed grants can include joint research proposal submissions (basic, applied and innovation), joint publications or educational products. Recipients of research

seed grants must submit joint research proposals (UC and ND) to funding agencies and/or companies in the US and/or in Chile in topics that are of common interest to both parties (e.g. Regular grant proposals to CONICYT, NSF, and the like) within 12-18 months of the conclusion of the seed grant. Recipients of educational seed grants must create new educational products (such as online courses, internationally relevant project-based learning courses, and the like) within 12-18 months of the conclusion of the seed grant. Awardees are expected to submit a final report with the details of the activities performed and project outcomes.

Seed grant applications will be competitively peer reviewed and up to 8 seed grants will be awarded.

The seed grant applications can be no longer than 3 pages of main text, plus supplementary materials (CVs, any relevant publications, and bibliography and references). Required elements of the seed grant applications include project ideas, how the project will generate collaborative research and/or educational products between the relevant researchers and educators at UC and ND, a detailed budget, who will travel back and forth and at what frequency, other means of stimulating the collaboration, and the key students who will be co-advised by the UC and ND faculty. These required elements will also form the key criteria for judging the seed grant applications and determining who will be funded. The Deans of the two Colleges – Juan Carlos de la Llera Martin and Peter Kilpatrick – will serve on the seed grant selection committee and will identify up to four other key faculty from UC and ND, not participating in the seed grant competition, to serve on the selection committee. Decisions will be announced by Dec 15<sup>th</sup>, 2015.

The due date for the seed grant applications is November 30<sup>th</sup> 2015. Applications must be sent by email to Mark McCready ([mjm@nd.edu](mailto:mjm@nd.edu)) and Domingo Mery ([dmery@ing.puc.cl](mailto:dmery@ing.puc.cl)). Decisions will be announced by December 15<sup>th</sup> 2015.