



MARIE SKŁODOWSKA-CURIE POSTDOCTORAL FELLOWSHIPS 2023

EXPRESSION OF INTEREST FOR HOSTING MARIE CURIE FELLOWS

HOST INSTITUTION

NOVA School of Science & Technology

RESEARCH GROUP AND URL

CERIS (<https://ceris.pt/>, <https://docentes.fct.unl.pt/rodrigo-goncalves/pages/research-0>)

SUPERVISOR (NAME AND E-MAIL)

Rodrigo Gonçalves (rodrigo.goncalves@fct.unl.pt)

SHORT CV OF THE SUPERVISOR

Currently employed as an Associate Professor with Habilitation, Rodrigo Gonçalves possesses over twenty years of research experience in the computational modelling of thin-walled structures and structural stability. He is currently the Coordinator of the PhD Program in Civil Engineering, the Coordinator of the CERIS research center hub at FCT-NOVA and the Portuguese representative in WG3 (EN 1993-1-3 - Coldformed steel members) and WG22 (EN 1993-1-14 - Design assisted by FEM) of CEN. He has received several national and international distinctions and is currently within the world top 2% most cited scientists in his field (<https://elsevier.digitalcommonsdata.com/datasets/btchxktzyw/4>).

5 SELECTED PUBLICATIONS

- Gonçalves, R., Ritto-Corrêa, M., Camotim, D., “A new approach to the calculation of cross-section deformation modes in the framework of Generalized Beam Theory”, *Computational Mechanics*, 46(5), pp. 759-781, 2010.
- Gonçalves, R., Ritto-Corrêa, M., Camotim, D., “A large displacement and finite rotation thin-walled beam formulation including cross-section deformation”, *Computer Methods in Applied Mechanics and Engineering*, 199(23-24), pp. 1627-1643, 2010.
- Gonçalves, R., Camotim, D., “Elastic buckling of uniformly compressed thin-walled regular polygonal tubes”, *Thin-Walled Structures*, 71, pp. 35-45, 2013.
- Manta, D., Gonçalves, R., “A geometrically exact Kirchhoff beam model including torsion warping”, *Computers and Structures*, 177, pp. 192-203, 2016.
- Bebiano, R., Camotim, D., Gonçalves, R., “GBTUL 2.0 – a second-generation code for the GBTbased buckling and vibration analysis of thin-walled members”, *Thin-Walled Structures*, 124, pp. 235-253, 2018.

PROJECT TITLE AND SHORT DESCRIPTION

“Direct Strength design of cold-formed steel members”. In this project the fellow will establish direct strength-based methods for the safety checking of cold-formed steel members failing by local and distortional buckling, in both common (e.g., lipped channel) and uncommon section shapes.

SCIENTIFIC AREA WHERE THE PROJECT FITS BEST*



Information Science and Engineering (ENG)

***Scientific Area where the project fits best** – Please select/indicate the scientific area according to the panel evaluation areas: Chemistry (CHE) • Social Sciences and Humanities (SOC) • Economic Sciences (ECO) • Information Science and Engineering (ENG) • Environment and Geosciences (ENV) • Life Sciences (LIF) • Mathematics (MAT) • Physics (PHY)