

**Call for Admission Procedure for Young Talent Scholarships in Brazil
(5N-MF_Call 6 – 2022)**

This call will select 1 fellow (12 months) with international experience to be inserted in the PrInt project "Micro and nanostructured multifunctional materials". The candidate profile must be connected with at least one of the following areas as described below:

- Biodegradable Polymeric nanocomposites (synthesis, processing, characterization and simulation);
- Synthesis and chemical modification of nanomaterials;
- Application of hybrid materials in biomedical systems;
- Production of polymeric nanocomposites based on thermosetting resins for use in the automotive, naval, aerospace, oil and gas industries.
- Nanostructured fluids under shear and extensional flows.
- Smart materials under mechanical, thermal and electrical stimuli;
- Multifunctional materials for additive manufacturing (extrusion, 3D printing);
- Mechanical Behavior (Fatigue and Fluency) of Metallic Materials and Metallic Matrix Composites;
- Thin film deposition by sputtering on metallic surfaces;
- Development of new metal materials for biomedical applications;
- Development, characterization and evaluation of coatings applied by thermal spraying;
- Surface engineering: thermal barrier coatings (TBC);
- Study, development and evaluation of high entropy coatings for industrial and biological applications.

Enrollment will be open on two occasions. The first call will take place between May 24th and June 10th, 2020 (beginning of the September/November 2022 scholarship). Second call will take place between August 1st and September 20th (beginning of the scholarship between January and March 2023). Entries must be sent directly to the email: materials.pos@mackenzie.br, indicating in the subject the number of the call. If the scholarship is awarded in the first call, the second call will be cancelled.