

Opportunity for Post-Doctoral Fellowship in Biomaterials/Hybrid hydrogels

The Institute of Chemistry of the University of Campinas (UNICAMP), São Paulo state, Brazil, is recruiting a Post-Doctoral Research Scientist for conducting a research project on the development of hydrogels for nitric oxide (NO) delivery, under supervision of [Prof. Marcelo G. de Oliveira](#). The position is available immediately.

The grant includes a monthly payment of R\$ 9.047,40 (around USD 1.790,40), free of taxes, for up to four years, Installation Allowance, plus Research Contingence funds (10% of the annual value of the fellowship) for covering research costs such as consumables and participation in conferences related to the project, paid by the São Paulo Research Foundation ([FAPESP](#)).

We are looking for outstanding and highly motivated candidates with previous experience in polymer chemistry to develop photocrosslinkable nitric oxide (NO)-releasing hydrogels for the 3D printing of cardiac patches. The research will involve the chemical functionalization of hydrophilic polymers for light induced 3D printing and the use of various polymer characterization techniques.

This position is available within a 5-years Thematic FAPESP-funded research project entitled “[Nitric oxide releasing hydrogels and vascular prosthesis for cardiovascular applications](#)” and involves collaborations with researchers from the Faculty of Medical Sciences at UNICAMP and the Federal University of São Paulo, UFABC in Brazil, and the Eindhoven University of Technology and the University of Twente in the Netherlands. The fellowship also allows short- and medium-term research internships in the Netherlands. Our laboratory is well equipped, receives ample FAPESP funding, and offers excellent opportunities for publications and presentations. Our studies are focused on basic and translational research related to biomedical applications of NO-releasing biomaterials.

Qualifications include a PhD in Chemistry, Chemical Engineering or Materials Engineering from an accredited institution, with experience in polymer chemistry highly recommended and supported by a strong publication record.

Applicants must be competent in basic techniques in chemistry such as IR-Raman spectroscopy, NMR, DSC, SEM and mass spectrometry and must also be willing to learn new techniques as necessary such as SAXS and chemiluminescence NO detection.

Applicants should send an e-mail to Prof. Marcelo G. de Oliveira (mgo@unicamp.br), until May 20, 2024, with the subject line "Biomaterials Project-FAPESP", attaching a motivation letter highlighting previous experiences relevant to the project, a Curriculum Vitae and two recommendation letters.

Applicants are invited to visit the following websites for more information:

[Nitric Oxide & Biomaterials Group](#)

[FAPESP](#)

[FAPESP-Fellowships](#)

[UNICAMP](#)

[UNICAMP-Video](#)

[The Institute of Chemistry:](#)

[Campinas - The most surprising city in Brazil](#)