

## Open Postdoctoral Associate Position

### Hydrogel Microsphere Technologies for Monoclonal Antibody Crystal Formulations

The Doyle Group in Chemical Engineering @ MIT | [doylegroup.mit.edu](http://doylegroup.mit.edu)

Applications are invited for a Postdoctoral Scholar position in the Doyle Lab at MIT. The scholar will lead research efforts on an industrially sponsored project related to developing hydrogel microspheres for monoclonal antibody (mAb) formulations. The overarching goal of this project is to develop hydrogel-based formulations to enhance flow properties of injectable formulations and engineer the controlled release of mAbs<sup>1</sup>. The research will entail micro- and milli-fluidic production of microgel particles, rheometry, microscopy, and *in vitro* release studies. The postdoctoral associate will have frequent interactions with the industrial collaborators.

Candidates should have experience in one or more of the following areas: microfluidic design & fabrication, rheometry, soft materials design & hydrogels, microscopy, protein crystallization, and data processing. Required skills include: strong background in the quantitative sciences or chemical/bio/mechanical engineering, and strong communication skills.

Applicants must have a demonstrated record of impactful scientific contributions and a capacity to communicate effectively with experts from a range of disciplines (including clinicians). Interviews are underway now, with the position to be filled immediately (or by end of June 2021, pending graduation/career plans of successful applicant).

**To apply:** please email (i) your cover letter & CV and (ii) the names and contact information for 3 references to Prof. Patrick Doyle ([pdoyle@mit.edu](mailto:pdoyle@mit.edu)) "mAb Postdoc Application" in the subject line. MIT is an equal opportunity employer and we welcome diverse experiences, backgrounds and perspectives.

[1] Schieferstein, Narasimhan, Doyle, *Advanced Therapeutics*, 2000216, 2021.