We seek a motivated research scientist to join our stem cell and translational research team to participate in preclinical cartilage repair studies. The position requires previous hands-on experience with tissue engineering (preferably cartilage), biomaterials, and physical analyses of constructs (e.g., histology, biomechanics, biochemistry). This is a full time research position with an immediate start date available.

The candidate will be specifically responsible for optimizing and producing cartilage implants based on the pioneering directed differentiation methods the Craft lab has developed to generate articular cartilage from hESCs/iPSCs (Craft et al., 2015 NBT, Gardner et al., 2019 eCM). The day-to-day responsibilities will primarily be in cell culture, the candidate may learn and perform stem cell differentiations, flow cytometry, qRT-PCR, transcriptomics (bulk and single cell RNA-seq), confocal microscopy and histology. The candidate has an opportunity to play a role in large animal studies. Lab tasks shared among our group include preparation of reagents and media, bottle washing/autoclaving, and maintenance of laboratory equipment and supplies.

Requirements

The applicant must be eligible to work in the US, and must have a minimum of a Bachelor’s or Master’s degree in Biology/Biomedical science (or equivalent). Candidates with doctoral degrees welcome. The applicant must have at least two years of mammalian cell culture experience with high priority in the cartilage tissue engineering space, and a strong understanding of molecular biology. Excellent communications skills in English are required. Due to the precise timing of directed differentiation experiments, some weekend work is expected (and shared among lab members).

The position will be offered through Boston Children’s Hospital, with additional criteria that will need to be met. Salary will commensurate with experience/position title ($45,000-68,000), and includes a benefits package.

Apply

Applicants should email a CV, contact information for two academic or professional referees, and a brief cover letter describing their background to Dr. April Craft: craftlab@bch.harvard.edu