

# Postdoctoral Research Scientist

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## Posting Details

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### First Section

<b>Job Requisition Number</b>	00001944
<b>Field(s) of Specialization</b>	Pediatric Cardiac Surgery
<b>Position Title</b>	Postdoctoral Research Scientist
<b>Department</b>	SRG Surgery
<b>Division</b>	Surgery
<b>Location</b>	Medical Center
<b>Summary Description</b>	<p>The Division of Cardiac, Thoracic &amp; Vascular Surgery at Columbia University Vagelos College of Physicians and Surgeons is accepting applications for a Postdoctoral Research Scientist.</p> <p>Individual will be responsible for management of laboratory functions and development of a research program that focuses on translational research and basic science applied to pediatric cardiac surgery. Our lab and collaborating partners combine expertise in tissue engineering, stem cell, molecular &amp; cellular heart valve biology, tissue biomechanics, polymer science, mechanical engineering, biomedical engineering, small and large animal models, medical device development, prototyping, clinical trial and patent writing.</p> <p>Our current projects include the development of growth-accommodating valved device, ventricular assist device, new biomaterials and tissue-engineered constructs.</p> <p>We seek highly motivated, meticulous, highly organized individuals who enjoy working in a team while concomitantly desiring to pursue their own ideas in a very supportive environment. candidates passionate about using their research and technical skills for to improve the outcomes of patients with congenital heart diseases have a strong plus.</p>
<b>Minimum Degree Required</b>	BS and/or MS in Polymer Science and/or Mechanical Engineering and/or Biomedical Engineering and PhD, MD or MD/PhD
<b>Minimum Qualifications</b>	<ol style="list-style-type: none"><li>1) 1-3 years experience in tissue engineering, preferably vascular or valvar tissue engineering</li><li>2) 1-3 years experience in biomedical engineering and polymer processing methods</li><li>3) 1-3 years experience in experimental and microvascular surgery</li><li>4) At least 3 peer-reviewed publications, as first, second or third author</li><li>5) At least 5 peer-reviewed publications</li><li>6) Knowledge in polymer science</li><li>7) High level English speaking/writing</li><li>8) Strong article/grant writing skills</li></ol>

**Preferred Qualifications**

- 1) Awardee of high-level research grants, preferably from NIH (K99) or NSF or AHA10 peer-reviewed publications, preferably as first or second authors
- 2) 5 years experience in tissue engineering, preferably vascular or valvar tissue engineering
- 3) 5 years experience in biomedical engineering and polymer processing methods
- 4) 5 years experience in experimental and microvascular surgery
- 5) Experience in research projects related to heart valves
- 6) Knowledge in heart valve biology
- 7) Previous experience in medical device development and/or biomaterial development

**Additional Information**

**RAPS posting date** 10/15/2020

**Search Closing Date**

**Special Instructions to the Applicant**

**Proposed Start Date** 12/01/2020

**EEO Statement** Columbia University is an Equal Opportunity Employer / Disability / Veteran

**Review Begins** 10/15/2020

**Quick Link** <http://pa334.peopleadmin.com/postings/6423>

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**Supplemental Questions**

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Required fields are indicated with an asterisk (\*).

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**Documents Needed to Apply**

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**Required Documents**

1. Curriculum Vitae

**Optional Documents**

1. Cover Letter
2. List of References
3. Statement of Research