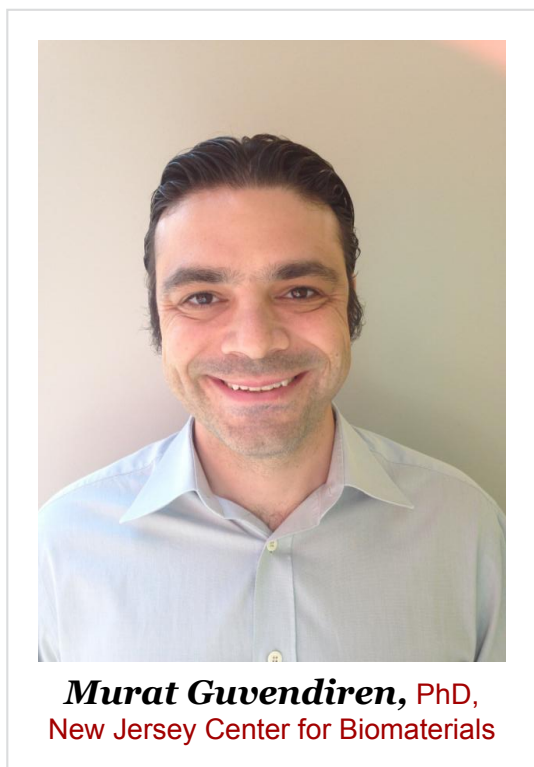


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**Murat Guvendiren, PhD,**  
New Jersey Center for Biomaterials

## Future of 3D Printing in Medicine

Three-dimensional printing is an additive manufacturing technique that enables the fabrication of scaffolds and devices from medical imaging technologies such as computed tomography (CT) and magnetic resonance imagery (MRI). The use of 3D printing in academia and industry has steadily increased over the past decade as the printers themselves become less expensive and more readily available. There seems to be an inevitability about 3D printing becoming a part of many fields, including biotechnology.

By attending the [\*\*\*NJ Symposium for Biomaterials Science\*\*\*](#) on **November 9, 2015**, you will hear about the current status of 3D printing in medicine and the potential it has for transforming healthcare as well as the achievements Dr. Guvendiren and his team have made in the realm of 3D printing.

Dr. Guvendiren is a materials engineer with expertise in polymer physics, chemistry, photochemistry, and

bioengineering. He received his Ph.D. from Northwestern University in Materials Science and Engineering with a minor in Bioengineering and continued his research as a postdoctoral researcher in the Materials Science and Engineering and Bioengineering Departments at the University of Pennsylvania. His research interests include the development of hydrogels and polymeric biomaterials displaying tunable dynamic chemical, mechanical, and topographical properties, biomimetic material design, photopolymerization, self-assembly, and surface patterning.

Murat Guvendiren is presently an Assistant Research Professor at the New Jersey Center for Biomaterials at Rutgers University. His current research focuses on 3D printing and its applications towards biomaterials and medical devices. He is currently working on extending the range of 3D printable polymers by designing novel ink formulations and developing bioactive hydrogels to preserve the self-renewal of stem cells.

By attending the [\*\*\*NJ Symposium for Biomaterials Science\*\*\*](#) on **November 9, 2015**, you will learn how Dr. Guvendiren and the New Jersey Center for Biomaterials are using their research acumen and innovative 3D printing technologies to shape the future of healthcare.

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