

2016-17 RBI Fellowship Proposals

19-Dec-16

Title	Professor(s)	No. PSE Students	Schools	Student	Submission to Fac Comm	Approval Date	Acceptance Letter	Home School	Term (Semesters)	Citizenship/Notes
Removal of Particulate Contaminants from Process Effluents by "Affinity Flotation"	Behrens, Sven, and Meredith, C.	1	ChBE	Mr. Scott Essenmacher	11/7/2016	12/9/2016	12/12/2016	ChBE	10 Semesters	US Citizen
Rheological Characterization of Nanocellulose for Metrology and Quality Control Research	Breedveld, V	1	ChBE	Ms. Jianshan Liao	10/31/2016	12/15/2016	12/16/2016	ChBE	4 Years (12 semesters)	China
Nanocellulose as reinforcement: An approach towards light-weighting of polymer composites	Kalaitzidou, K/ Jacob, K	1	ME	Mr. Ejaz Haque	11/1/2016	11/10/2016	11/9/2016	MSE	4 Years (or TBD 11 semesters and \$'s M&S)	US Citizen
Low-Cost, Large-Scale Manufacturing of Multifunctional Porous Cellulose/Nanoparticle Microspheres for Water Treatment	Lin, Zhiquan	1	MSE	Ms. Jiwoo Yu	8/17/2016	8/29/2016	(Prelim 8/29/2016)	MSE	10 Semesters	Korea
New Functionality via Vapor-Phase Surface Modification	Losego, M	1	MSE	Ms. Yi Li	9/6/2016	9/12/2016	(Prelim 9/21/2016)	MSE	10 Semesters	China
Tunable Polymeric Membranes for Energy-Efficient Black Liquor Concentration	Nair, S/ Shofner, M/ Sinquefield, S	1	ChBE, MSE, RBI	Mr. Zhongzhan Wang	10/14/2016	10/14/2016	10/17/2016	ChBE	9 Semesters (10/2016-10/2019)	China (TBC)
Biorefining: Catalytic Processes for the Production of Value-Added Chemicals from Lignin (Mechanocatalytic Depolymerization of Lignin)	Sievers, C/ Realf, M/ Thomas, V	1	ChBE, ISyE	Mr. Andrew Tricker	11/29/2016	12/19/2016	12/19/2016	ChBE	12 Semesters	US Citizen
Biorefining: Catalytic Processes for the Production of Value-Added Chemicals from Lignin (Production of Phenol and Catechol from Lignin-Derived Monomers and Dimers)	Bommarius, A/ Sievers, C/ Thomas, V	1	ChBE, ISyE	Mr. Michael Stellato	11/29/2016	12/19/2016	12/19/2016	ChBE	12 Semesters	US Citizen
Biorefining: Catalytic Processes for the Production of Value-Added Chemicals from Lignin (Production of Adipic Acid from Catechol)	Peralta-Yahya, P / Bommarius, A/ Realf, M	1	ChBE, Chem	Mr. Nick Kruyer	12/7/2016	12/9/2016	12/12/2016	ChBE	12 Semesters	US Citizen
3D Printed High Strength and Lightweight Epoxy/Nanocellulose Composite Products for Automobile and Aerospace Applications	Qi, J/Deng, Y	1	ME, ChBE	Mr. Craig Hamel	8/17/2016	8/29/2016	(Prelim Fri 9/9/2016 8:40 AM)	ME	11 Semesters	US Citizen
Customizable cast films containing active pharmaceutical ingredients (TBC)	Brettmann, B	1	MSE	Ms. Manali Banerjee	9/2/2016	9/20/2016	(Prelim Tue 9/20/2016 2:20 PM)	MSE	12 Semesters	India

ChBE, Chem,
ISyE, ME, MSE,
RBI

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Check: Lisa Weist w/Sievers

ChBE (5),
Chem (1),
ME (2), MSE
(3)
ChBE (8), Chem
(1), ISyE (1),
ME (3), MSE
(5), RBI (1)