



**Lakehead University**  
**Faculty of Science and Environmental Studies**

**REQUEST REPORT**

**Request Tracking Number:** 2015-SCI-5238  
**Request Title:** Program - new - GR - Biol - MIBiotech

[DeAcTerm[EffectiveDate]] [DeAc[RequestEffectiveDate]]  
**Request Status:** In Workflow  
Request can't be split

**Request Contents**

Type	Title
1. New Program	Master of Industrial Biotechnology

**Request History**

Workflow Step	Workflow Action	User	Change Made	Comments	Date
Initiator	Approved	Ladislav Malek	No	Submitted to workflow	10/01/2015

**Supporting Documents**

File Name	Uploaded By	Upload Date	Size
-----------	-------------	-------------	------

**Supporting Documents Audit Trail**

File Name	User	Date	Action
-----------	------	------	--------

**Notes**

Date	User	Note
------	------	------

1.	New Program	xxx - Master of Industrial Biotechnology
----	-------------	--

### Degree Details

xxx - Master of Industrial Biotechnology <b>Start Term:</b> 2016-17 <b>End Term:</b> No Specified End Date
--

<b><u>Required Information</u></b>
<b>Institution Unit</b> Faculty of Science and Environmental Studies
<b>Degree Type</b>
<b>Major</b>
<b>Minor</b>
<b>Specialization</b>
<b>Rationale</b> Biology receives a large number of applications into MSc program from international students. For various reasons, majority of these applicants cannot be accepted into our thesis-based program. The proposed program intends to draw on this applicant pool, while strengthening their understanding of biology fundamentals underlying biotechnology and giving a solid foundation in industrial biotechnology. Currently, there is a gap between Biology undergraduate curriculum and the PhD in Biotechnology we already offer. The proposed program will provide a number of courses which will be available to Lakehead graduates contemplating the PhD Biotechnology degree.
<b>Requirements</b> This course-based, one-year-long program consists of six full course equivalents composed of two semesters of: three Industrial Biotechnology-specific fifth year courses, one full course equivalent fifth year elective course, and one full course equivalent undergraduate course. This is followed by one Spring/Summer semester of research project with report, equivalent to one full fifth year course. To graduate, candidates must satisfy program requirements, B overall average in their courses with no more than one full course equivalent (two half courses) graded C.

<b><u>Budgetary Considerations</u></b>
<b>Student Enrolment</b> Yes. But only one elective courses offered by SES (Chemistry) may see a gradual increase in enrollment. The modular Chem 5311 will gain 2 additional optional modules offered by program proponents.
<b>Student Enrolment Other Units</b>

Yes. Drs. Christopher and Appoh are responsible to the VP REDI, and obtained approval for their involvement in the proposed program. The two faculty members from NRM Faculty (Leitch and Shahi) agreed to and support the proposal. As well, an approval was obtained from the Dean of the NRM Faculty.

**Additional Resources**

Please, refer to the Budget section 8.3. of the attached "Proposal Brief".

**Teaching Loads**

Increased income from this self-funding program will provide additional resources to the participating faculties and their members - see the Budget section 8.3. of the "Proposal Brief".

**TeachingSupport Services**

see the proposal brief attached

**Outside Support**

see the proposal brief attached