

**Title** : **Trends in Needs of Biomedical Sciences Program**  
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**Publish** : **2005**  
**Source** : **Institutional Research Project Financially Supported by Suranaree University of Technology**

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### **Abstract**

There were four purposes of this study. First, to study trends in needs of study in undergraduate and postgraduate biomedical sciences program. Next, to study trends in employers needs of biomedical sciences graduates and postgraduates to work for their working places. Then, to study employers needs of special characteristics of biomedical sciences graduates and postgraduates. Finally, to study the readiness of laboratory instruments, laboratory room, personnel and budget for launching biomedical sciences program. The samples can divide into two groups; Firstly, students at senior high school level in lower northeast region, a final year of allies health sciences undergraduate students and allies health personnel whether they interested in study in biomedical sciences program at Suranaree University of Technology (SUT). Secondly, employers whether they need biomedical sciences graduates and postgraduates to work for their working places. The data were collected by questionnaires and interviews. The results were concluded as follows; Students at senior high school level about 29-30% were interested in study in undergraduate biomedical sciences program. About 19% of a final year of allies health sciences undergraduate students were interested in continue study in biomedical sciences master program. The allies health personnel were interested in study in biomedical sciences master and doctor programs about 22-24% and 3-5% respectively. Results from 21 employers interviews were as follows; About 13 employers needed biomedical sciences graduate and postgraduate to work for their working places. 5 employers were uncertain. About 6, 2 and 1 government employers needed biomedical sciences graduate, master degree and any degree respectively. The needs of 9 and 1 private employers were biomedical sciences graduate and master degree respectively. The needs for biomedical sciences graduates special characteristics were very good understanding in microbiology and biochemistry, very good capability in using advance analytical apparatus and research. The needs for biomedical sciences postgraduates special characteristics were very good understanding in microbiology, biochemistry and pharmacology. Suranaree University of Technology had got enough laboratory rooms for teaching in all biomedical sciences laboratory discipline. Most of laboratory instruments were prepared

enough for study process. The budget need for preparing these programs was about 2 millions baht. Institute of science, SUT, had got 64 lecturers that 15 lecturers can teach in special biomedical sciences discipline. SUT had got enough classrooms, library and student dormitories for all biomedical sciences students.