

Brief of Each Surveys



MINISTRY OF RESEARCH, TECHNOLOGY, AND HIGHER EDUCATION
UNIVERSITAS NEGERI MALANG (UM)
FACULTY OF MATHEMATICS AND NATURAL SCIENCES
DEPARTMENT OF BIOLOGY
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a. Dropout rate

Overall the dropout rate in BIO is highly happening in the first year of study. We assumed that the students who decided to dropout, making BIO program as their second choice in their career plan when they were in the high school. They used to retake the higher education exam (SBMPTN) after finishing their second semester, they who passed the test and took the other major in other universities. However, in 2015 there were 3.95% junior students in total who are recorded dropping out from the BIO. For this case, we have investigated that the reckoned students are parts of the student who did not pass the SBMPTN in the last year. Thus, they who end the program at BIO in the second year were they who determined to move the program. After 2015, there has no data recorded regarding the dropout student. This suggest that, the department program to prevent student in dropping out from BIO is successful. As was mentioned at part 11, the preventive programs from BIO are tightening the selection process of student's candidates and improving the quality of communication between students and department.

b. Length of Study

According to the department data from 2013-2017, most of BIO students were graduated on time for four years. This is proved by the gained data of graduate rate among students is above 70%. The rest of students were recorded been graduated in the 9th semester, which is one semester longer. Based on our investigation, most of students in this case were they who had a problem in their thesis writing, particularly in changing the research topic. In addition, from gathered information presented that the limited tools and materials also became the factor in burdening them to be graduated on time. To minimize the longer length of study, our department have a strategic plan mainly improving the research facilities every year.

c. Graduates Employment

Currently, our department received the information from the tracer study that most of our graduates are working at the company or institution which is fit in their qualification as a biologist. The vast majority of them took one until six months in getting job. In some cases,

there were students who had been recruited as the employee at the company where they took internship program. Ultimately, the BIO graduates are competent in the work place among the other graduates from the other prestige universities.

d. Research Activities

Our laboratories facilitate the research activities which are undertaken by the lecturer, undergraduate students for their undergraduate thesis and master's students for their master's thesis. The 11 laboratories that we have, are expected to be able provide the space for all the working group research between lecturer and student. To support the research activities, we also provide the comfortable room in each laboratory and they all have been standardized base on the ISO standard – we passed the ISO accreditation-.

e. The Satisfaction Level of the Stakeholder on BIO

The survey to examine the satisfaction of every stakeholder in BIO is regularly undertaken every year. In particular, the satisfaction survey for employment is administered when visiting session by the lecturer as the supervisor of the internship program.

f. Summary of Stakeholder Response to Performance of BIO Graduates

As mentioned in the body text, in responding to the BIO graduates' performance, the stakeholder in BIO department, particularly the head of department bring the data as the reference for the SWOT analysis, which then will be considered as the man power plan for the next school year period. The latest record of graduates' responds, 50% of the graduates are working at the company related to biology. As for the perception on the department support on the skills that are needed in their workplace, they answered that they had no difficulties in facing the tasks in their company. However, there are some technical issues that emerged in their responds such as improving some skills in using certain biological devices. For this reason, the department has planned to add some new devices for the lab activities. Furthermore, the rest of graduates chose to pursue the higher degree; become entrepreneur and teachers.

Tracer Study Report and Minutes Meeting

1. Tracer Study Report



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To administer the tracer study, our department has provided a special support team, which was recruited from lecturers, conducts survey every year and the result of the survey is recorded and analyzed in the special report book. These are the result of the latest surveys that our team administered in 2018:

1. Type of work

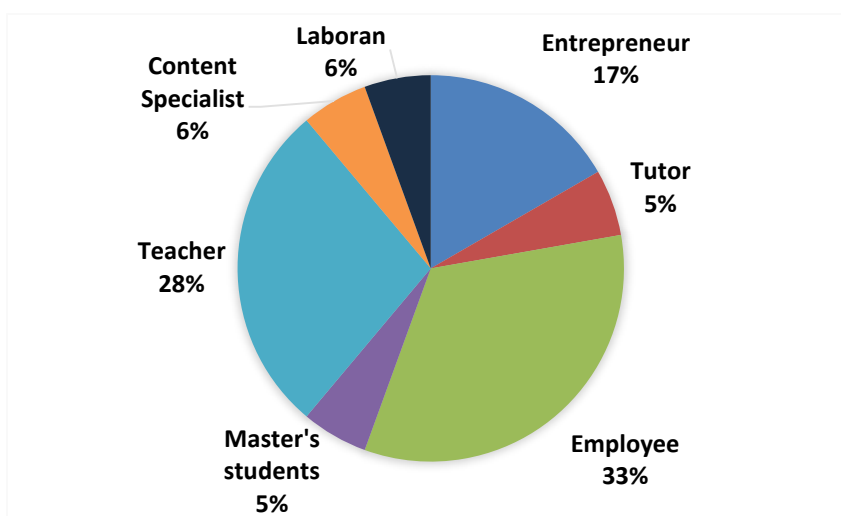


Figure 4.14 S1 Biology Graduates Occupations

2. Name, address of the workplace

Table 4.3 Name and Address of Institutions Graduates of S1 Biology

No	Nama	Nama dan alamat Instansi
1	Alfiani Rachmawati	Umeanyar, Kec. Seririt, Kab. Buleleng, singaraja - Bali
2	Aulia Fitri Wardani	Jalan Kertanegara 85 Ds. Girimoyo Karangploso
3	Budi Sucipto	smp n 2 sumberpucung
4	Dina Ayu Valentiningrum	-
5	Dwi Anggun Putri Solikha	JL. TRANS KALIMANTAN, DS PURWAREJA, KEC, SEMATU JAYA, KAB. LAMANDAU, KALTENG
6	Eka puspita	Jln Bendungan sutami malang

No	Nama	Nama dan alamat Instansi
7	Firda Asmaul Husna	Jalan Salemba Raya
8	Isak Krestian Budi	RT 32 RW 10 Desa/Kec Gandusari Trenggalek
9	Isak Krestian Budi	Dusun Karangrejo RT/RW 32/10
10	Istamaya Ariani	Jl Arjuno no 20 Malang
11	Kharirrotun Nafiah	-
12	Lalu Irfan Arisaputra	JALAN DATU BRENGE NO 1A DASAN SARI, MATARAM, NTB
13	Lisa Savitri, S.Si., M.Imun.	-
14	Luana Indah Sari	JL Rungkut industri III/31 Surabaya
15	Megawati, S.Si	Jl. Tumenggung suryo no. 135A Malang
16	Neneng Dwinur Rizki Kurniasari	Jl RE Martadinata No 46 Ciputat Tangerang Selatan
17	Putri Moortiyani Al Asna	Jalan Puncak Jaya (Perum Mutiara) Blok B-72 Pare
18	Rizal Kurniawan Sakti, S.Si	Jln. Argomoyo No 2
19	Suci Ayu Maharani	Jl Sawo no 17-19 Sambikerep, Surabaya
20	Syifa	Jl Melati Utama Gede Bage Kota Bandung

3. Type of workplace.

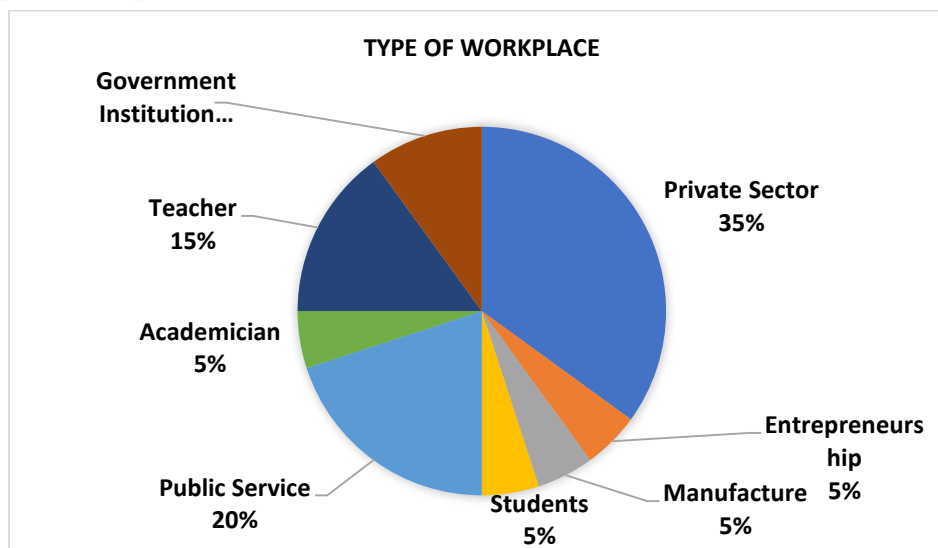


Figure 4.16 Graduates of S1 Biology Types of Workplace

4. Position in the job

Table 4.5 Position of Graduates of S1 Biology in Employment

No	Name	Position
1.	Alfiani Rachmawati	Manager Reservation
2.	Aulia Fitri Wardani	Junior Staff Adm Sales
3.	Budi Sucipto	Teacher

4.	Dina Ayu Valentiningrum	Admin
5.	Dwi Anggun Putri Solikha	LABORATORY GENERAL, PPK, AND ENTREPRENEURS
6.	Eka puspita	Business owner
7.	Firda Asmaul Husna	Research Assistant
8.	Isak Krestian Budi	Chairperson of PPS
9.	Isak Krestian Budi	Chairperson of PPS
10.	Istamaya Ariani	Tutor and employees
11.	Lalu Irfan Arisaputra	Founder
12.	Luana Indah Sari	Medical representative
13.	Megawati, S.Si	Scener slide dan administrative staff
14.	Neneng Dwinur Rizki Kurniasari	Treasurer
15.	Putri Moortiyani Al Asna	Laboratory Staff Analyst
16.	Rizal Kurniawan Sakti, S.Si	Teacher
17.	Suci Ayu Maharani	Microbiology Analyst
18.	Syifa	Teacher

5. The relevance of graduate work with its educational background in the Biology S1 Study Program at FMIPA UM.

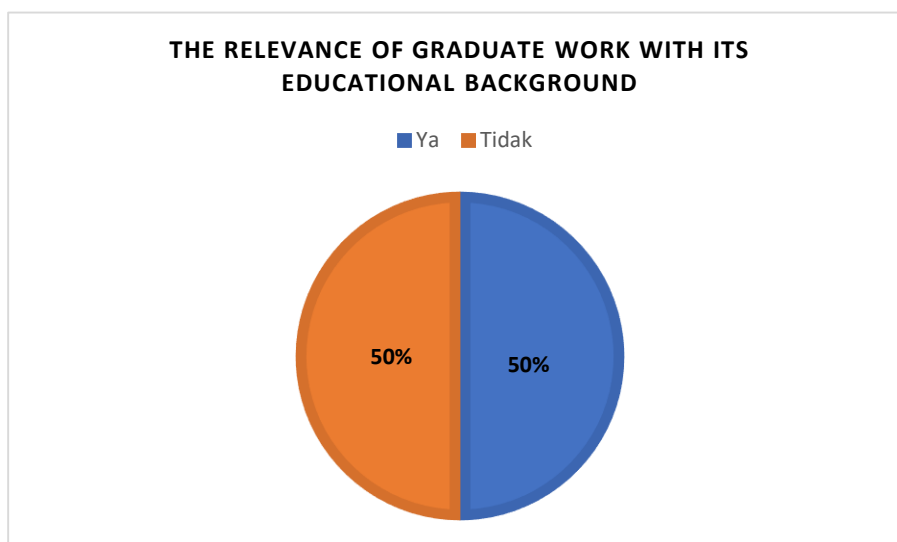


Figure 4.18 Relevance of Work Graduates of S1 Biology with Educational Background

6. Types of courses that are useful in real work.

Table 4.7 Relevancy of Courses Type with the Occupation of Graduates of S1 Biology

Type of Courses	Average	Interpretation
Character Development Courses	3.5	Supports
Subject Area Courses	3.5	Supports

Working Skills Course	3.5	Supports
Working Behavior Courses	2.75	Fair Enough
Community Life Courses	3.5	Supports

Note: Scale 1-5

Source: Primary Data

7. Contribution of learning experience to graduate work

Table 4.9 Interest Rates Types of Learning Experience in Contributing to Work Graduates of S1 Biology

Types of learning experiences	Average	Interpretation
Learning experience in class	4.4	very important
The learning experience in the laboratory laboratory	4.3	very important
Learning experience in Teaching	4.45	very important
Learning experience in KKN	3.75	important
Learning experience in student organizations	3.7	important
Learning experience in the process of writing thesis	4.45	very important
Learning experience independently	4.55	very important
Learning experience in group	4.5	very important

Note: Scale 1-5 Source: Primary Data

8. Graduates' self-assessment of mastering their competence when they just graduated

Table 4.11 Level of Mastery of Competence When New Graduated with a Bachelor of Biology according to a Graduate Self-Assessment

Competence	Average	Interpretation
a. Integrity (ethics and morals)	4.3	Very Good
b. Expertise based on the field of science (professionalism)	4	Very Good
c. English language skills	3.4	Very Good
d. Use of information technology	4.45	Very Good
e. Communication skills	4.05	Very Good
f. Ability to work with team	4.3	Very Good
g. Self-development	4.45	Very Good

Note: scale 1-5

Source: Primary Data

9. Graduates' response to the need for competence in their work.

Table 4.13 Level of competency requirements in the work of graduates of Biology S1

Competence	Average	Interpretation
a. Integrity (ethics and morals)	3.96	Very necessary
b. Expertise based on science (professionalism)	3.64	Very necessary
c. English language skills	3.32	Very necessary
d. Communication skills	3.76	Very necessary

e. Use of information technology	3.80	Very necessary
f. The ability of team work	3.96	Very necessary
g. Self-development	3.96	Very necessary

Note: 1-4 scale

Source: Primary Data