

FS-Biotech.eu – User’s Manual

FS-Biotech.eu
FRONT OFFICE

fs-biotech
SKILLS TO TRANSFORM
THE FUTURE







1. Índice

1. Índice	3
2. Introduction	4
3. Menu Option's	5
About FS-Biotech	6
Objectives	7
Partner's	8
Results	9
Resources	10
Contacts	11
4. Work Area (Students, Professors and Businesses)	12
In this area each type of user, can access to its respective section, whether student, teacher or businesses.	12
Tutorial Program	13
Individual Coaching	14
Curriculum Innovation	15
PROFESSORS	16
Curricular Development	17
Tutoring	18
Businesses	19
Questionnaire	20

2. Introduction

The FS-Biotech is a co-financed project by the European Commission through Erasmus - Multilateral Projects - Projects focusing on cooperation between higher education and enterprises. The main objective of FS-Biotech project is to potentiate innovation into the University's, and also to approach the business company's and their skills need's and those that are lecture in the university's.

The following image represents the main area of the FS-Biotech.eu website.



The screenshot shows the main area of the FS-Biotech.eu website. At the top right, there are language selection options: dansk, deutsch, english, español, polski, português. The main header features the fs-biotech logo and a navigation bar with three main sections: STUDENTS, PROFESSORS, and BUSINESSES. Below this is a secondary navigation bar with links: HOME, ABOUT FS-BIOTECH, OBJECTIVES, PARTNERS, RESULTS, RESOURCES, and CONTACTS.

WELCOME

The **FS-Biotech Project** is co-financed by the European Commission through the Erasmus program - Multilateral Projects - Projects focusing on cooperation between higher education and enterprises. The main objective of this project is to promote innovation in Higher Education, enhancing the connection between the business market and the development of the required skills by the educational Institutions. The main activities throughout the project in order to achieve this objective are:

1. Development of the benchmark activities with several companies in different sectors and with varied dimensions, which will culminate on the identification of key competencies required by the market for recent graduates;
2. Development of support methodology that promotes the individual growth of the students leaving from their self-evaluation of transferable skills that are fundamental to their future professional integration;
3. Implement and develop activities of teaching-learning methodologies addressed to teachers in order to make the teaching also focuses on transversal skills beyond technical skills, as well as to support the development of education techniques more focused on regulated-learning.

NEWS & EVENTS

Ensino Superior Descubra as Universidades que as empresas preferem

O Diário Económico lançou um inquérito às maiores empresas portuguesas para saber que cursos e universidades escolhem na hora de recrutar e revela agora as respostas.


[» read](#)

At the bottom of the page, there are three images: a group of diverse young people smiling, a group of people in a meeting, and a group of people in a professional setting. Below these images are logos for the European Union, Education and Culture DG, Lifelong Learning Programme, and Education and Training, with the text "With the support of the Erasmus Programme".

3. Menu Option's

In the main page there are some options that permit the visitor to know the institution, the partners, contacts, resources and objectives.

Also it is divided in tree different access section's Students, Teachers and Businesses.



The screenshot shows the website's main page. At the top right, there are language selection links: dansk, deutsch, english, español, polski, português. Below the fs-biotech logo is a navigation bar with three main sections: STUDENTS, PROFESSORS, and BUSINESSES, each with a red background and white text. Below this is a green navigation bar with links: HOME, ABOUT FS-BIOTECH, OBJECTIVES, PARTNERS, RESULTS, RESOURCES, and CONTACTS. The main content area is divided into two columns. The left column has a 'WELCOME' section followed by a paragraph about the FS-Biotech Project and a list of three objectives. The right column has a 'NEWS & EVENTS' section with a news item titled 'Ensino Superior Descubra as Universidades que as empresas preferem' and a 'read' link.

1 –Web Site Menu Language – In this menu you can choose the language that you want to see the website. (Danish, German, English, Spanish, Polish and Portuguese).

2 – Work Area – the user can access their work area if they are Student's, Teacher's our Businesses).

3 – Project Options – This area contents various options that permits the user to know the Project. You can see who the partner's are, the project objectives, the results, contact's.

4 – News – In this are you can update project news, website events and Partner's.

About FS-Biotech

In this area you can obtain information's about the FS-Biotech Project, mainly the project description and also 10 Web Packages.

[dansk](#) [deutsch](#) [english](#) [español](#) [polski](#) [português](#)



ABOUT FS-BIOTECH

FS Biotech – Future Skills For Biotechnology main goals are: to enhance the quality of teaching-learning systems in HEI, to promote cooperation between HEI and companies by fostering the involvement of companies, Industry and Professional Associations, *Alumni* and other relevant stakeholders and to developed competitive graduates that may have an impact in the competitiveness in the Biotechnology area. We intend to develop and validate a Skills Profile (SP) for Biotechnology graduates using an instrument that will be administered to 500 companies from 4 European countries aiming to identify the market valued soft skills. Furthermore we intend to introduce these soft skills in the academic curricula generating a better adjustment between market needs and the graduate's profiles. For that we will create a training model (CD-TM) in order to improve teachers' skills and promote the reformulation of pedagogical methods like tutoring and coaching. This model will also take into account the results of an inventory of self-assessment (SPEI) used to evaluate the students skills and perceptions in self-regulated learning. This will be accomplished along **10 Work Packages**:

WP1 > Biotechnology Skills Profile:

The main aim is to foster cooperation between companies and Universities and the adaptation of curricula to companies needs in terms of valued skills.

WP2 > Transference Programme of professional profiles into curricula:

Its main aim is to allow the transference of market valued skills into the curricula.

NEWS & EVENTS

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[» read](#)

Objectives

In this area you can find the FS-Biotech objectives.

[dansk](#) [deutsch](#) [english](#) [español](#) [polski](#) [português](#)



The screenshot shows the FS-Biotech website interface. At the top, there are language selection links. Below is the fs-biotech logo and a navigation bar with buttons for STUDENTS, PROFESSORS, and BUSINESSES. A secondary navigation bar includes HOME, ABOUT FS-BIOTECH, OBJECTIVES (highlighted), PARTNERS, RESULTS, RESOURCES, and CONTACTS. The main content area is titled 'OBJECTIVES' and features three images of people in professional settings. Below the images is a list of five objectives. To the right, there is a 'NEWS & EVENTS' section with a headline in Portuguese and a 'read' link.

OBJECTIVES



1. To foster cooperation between companies and Universities and the adaptation of curricula to companies needs in terms of valued skills;
2. To allow the transference of market valued skills into the curricula;
3. To develop research in the area of Self-Regulated Learning skills, in order to adapt the Tutoring Project to students needs;
4. To develop teachers skills in the Tutoring area, in order to integrate valued soft skills in the process of tutoring as well as encouraging students self-regulated Learning skills;
5. To implement integrated practices among professors and tutors;

NEWS & EVENTS

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[read](#)



Partner's

In this area you can access all partners of FS-Biotech, when you click in there logo you will be redirect to each partner's website.

dansk deutsch english español polski português

More Partners:

	Dublin City University IRELAND		Universidade Católica Portuguesa Escola Superior de Biotecnologia (ESB) PORTUGAL
	Freie Universität Berlin GERMANY		Universitas Miguel Hernández SPAIN
	Interolegiate Faculty of Biotechnology of University of Gdansk and Medical University of Gdansk POLAND		University of Central Lancashire UNITED KINGDOM
	Trinity College Dublin IRELAND		

Results

In this area you can access all the public results obtained in the FS-Biotech Project. The documents will be available for consultation for all users and they will be in PDF Format (Acrobat Reader).

[dansk](#) [deutsch](#) [english](#) [español](#) [polski](#) [português](#)



RESULTS

Relatório Estudo Exploratório Empresas_Ago_2009

Relatório Estudo Exploratório
Empresas_Ago_2009.pdf



NEWS & EVENTS

**Ensino Superior Descubra as
Universidades que as
empresas preferem**

O Diário Económico lançou um inquérito às maiores empresas portuguesas para saber que cursos e universidades escolhem na hora de recrutar e revela agora as respostas.

[read](#)





Resources

In this area you will find the FS – Biotech Project resources for all users to consult. The documents will be in PDF Format (Acrobat Reader).

dansk deutsch english español polski português



RESOURCES

BackOffice

NEWS & EVENTS

Benchmarking of good-practices in soft skills and self-regulated learning skills development	Benchmarking of good-practices in soft skills and self-regulated learning skills development.pdf	
Benchmarking_Meeting_Minutes_16-07-09	Benchmarking_Meeting_Minutes_16-07-09.pdf	
Best Practices - Aalborg University	Best Practices - Aalborg University.pdf	
Best Practices - Catholic University of Portugal	Best Practices - Catholic University of Portugal.pdf	
Best Practices - Cranfield University	Best Practices - Cranfield University.pdf	
Best Practices - Free University Berlin	Best Practices - Free University Berlin.pdf	
Best Practices - Trinity College Dublin - Dublin City University	Best Practices - Trinity College Dublin - Dublin City University.pdf	
Best Practices - University Miguel Hernández Elche	Best Practices - University Miguel Hernández Elche.pdf	
Guidelines for Tutoria	Guidelines for Tutoria.pdf	

Ensino Superior Descubra as Universidades que as empresas preferem

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[» read](#)

Contacts

In this area you will find all the FS-Biotech contacts. (Partners and people that are related to the project).

dansk deutsch english español polski português



CONTACTS

- Marina Ventura** - Catholic University of Portugal▼
- Annette Lorentsen** - Aalborg University▼
- Christianne Dorenburg** - Free University of Berlin▼
- Tiago Cunha** - Associação Empresarial de Viana do Castelo▼
- Ewa Lojkowska** - University of Gdansk▼
- Maria Amparo Ramos** - Miguel Hernandez University▼

NEWS & EVENTS

Ensino Superior Descubra as Universidades que as empresas preferem

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[» read](#)

4. Work Area (Students, Professors and Businesses)

In this area each type of user, can access to its respective section, whether student, teacher or businesses.

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STUDENTS

The **Project FS-Biotech - Future Skills for Biotechnology** has at your disposal a set of activities that will contribute to your personal and academic development.

The background for this project is the promotion and development of transferable skills, and the Students in the 1st cycle can:

- use **Tutoring** as an individual support to face the various challenges that arise in Higher Education;
- evaluate, promote and develop the transferable skills, in a customized way, appropriate for the needs of each Student, through **Individual Coaching**;
- contribute to **Curriculum Innovation**, through the participation in a Task Force that aims at enriching the academic curriculum with the cooperation of the students.

Click on the side to get to know more about each of these initiatives!

TUTORIAL PROGRAM

INDIVIDUAL COACHING

CURRICULUM INNOVATION

1
2
3

1 – Tutorial Program – This area consists in explaining the tutoring plan of the Project and also several common issues, showing their answers after passing the mouse over them.

2 – Individual Coaching – In this area there you can find the explanation of the assessment of student skills through sessions with experts from the Project FS-Biotech.

3 – Curriculum Innovation – Provides information on the development of curricular skills through dialogues with companies.



Tutorial Program

This area consists in explaining the tutoring plan of the Project and also several common issues, showing their answers after passing the mouse over them.

The screenshot shows the website interface with the following elements:

- Language selection: dansk, deutsch, english, español, polski, português
- fs-biotech logo and tagline: SKILLS TO TRANSFORM THE FUTURE
- Navigation menu: HOME, ABOUT FS-BIOTECH, OBJECTIVES, PARTNERS, RESULTS, RESOURCES, CONTACTS
- Main navigation tabs: STUDENTS (highlighted), PROFESSORS, BUSINESSES
- STUDENTS section:
 - TUTORIAL PROGRAM**

The Project Future Skills for Biotechnology is promoting the Tutorial Program of ESB-UCP, so that you can make use of:

 - Personal monitoring based on a close relationship between students and their tutors
 - Support integrating in higher education and in the Católica University,
 - Preparation for the challenges brought by higher education,
 - Development of transversal skills, which are fundamental for the future integration and professional development.

In this way, you can use this site to contact the Team from FS-Biotech and to obtain personal support!
 - Other options: # TUTORIAL PROGRAM, # INDIVIDUAL COACHING, # CURRICULUM INNOVATION
- Question submission section:
 - Submit your questions to us (academic, institutional, technical, etc.) and your request will be forwarded to the teacher or service most adapted to each situation..
 - Contact us by clicking on top of the question that applies to your situation, and fill in the form that follows::
 - # What Project Management tools do you recommend?**

The development of a project, be it an investigation, development or implementation project, is something of extreme complexity, implying the monitoring and management of different simultaneous activities, never losing sight of the deadlines for each stage of the work being done. That's why there are project management tools that can be extremely useful to you – come and get to know them!
 - # How can I prepare a public presentation?**

Individual Coaching

In this area there you can find the explanation of the assessment of student skills through sessions with experts from the Project FS-Biotech.

dansk deutsch english español polski português



HOME
ABOUT FS-BIOTECH
OBJECTIVES
PARTNERS
RESULTS
RESOURCES
CONTACTS

STUDENTS
PROFESSORS
BUSINESSES

STUDENTS

INDIVIDUAL COACHING

With the Individual Coaching you can perform an evaluation of your transversal skills. Based on this evaluation, you will have individual sessions with a coach from the FS-Biotech Team, who will support you in the promotion and development of the skills you want to promote and develop. This personalized support allows you to define your own route, for you are always the person responsible for your own choices and for your own learning.

As an ESB-UCP student, you may begin this activity in any year during the 1st cycle.

TUTORIAL PROGRAM

INDIVIDUAL COACHING

CURRICULUM INNOVATION



Education and Culture DG

Lifelong Learning Programme



Education and Training

With the support of the Erasmus Programme

This project has been funded with support from the European Commission. This communication reflects the views only of the author, and the Commission cannot be held responsible for any use which may be made of the information contained therein.

Curriculum Innovation

Provides information on the development of curricular skills through dialogues with companies.

dansk deutsch english español polski português



The screenshot shows the website interface. At the top, there is a navigation bar with language options. Below it is the fs-biotech logo. A main navigation bar contains three highlighted buttons: 'STUDENTS', 'PROFESSORS', and 'BUSINESSES'. Below this is a secondary navigation bar with links: HOME, ABOUT FS-BIOTECH, OBJECTIVES, PARTNERS, RESULTS, RESOURCES, and CONTACTS. The main content area is titled 'STUDENTS' and features a section for 'CURRICULUM INNOVATION'. This section includes a paragraph explaining the process of integrating skills development into curricula through dialogues with companies. To the right of the text is a graphic with three social media-style tags: '# TUTORIAL PROGRAM', '# INDIVIDUAL COACHING', and '# CURRICULUM INNOVATION'. At the bottom of the page, there are logos for the European Union, the Education and Culture DG, and the Erasmus Programme, along with a disclaimer stating that the project is funded by the European Commission and the views expressed are those of the author.

PROFESSORS

dansk deutsch english español polski português



PROFESSORS

In order to promote the quality of the teaching-learning system, Project FS-Biotech aims to bring the practices developed by institutions of higher education closer to the needs and requirements of the labour market, as concerns the technical and transversal skills presented by the graduates.

In this sense, the role of the teachers is fundamental to the development of innovative curricular strategies.

Namely to promote self-regulated learning methodologies among students, and contribute to the adaptation of the curricula in order to enhance, in the profiles of the graduates, those skills that are most valued by the companies and the employers.



Project FS-Biotech proposes to the teachers that they participate actively in the suggested activities, for the contribution of various agents enriches the intervention and contributes to the quality of the teaching strategies, and also benefits the personal, academic and professional development of the students.

// CURRICULAR DEVELOPMENT

// TUTORIA

1
2

1 – Curricular Development – Area where the teachers can implement their teaching methods with the aim of transferring skills to other areas.

2 – Tutoria – Is the development of learning skills, self-regulated, with the teacher being the student's tutor.

Curricular Development

Area where the teachers can implement their teaching methods with the aim of transferring skills to other areas. The Professor needs to login in.

dansk deutsch english español polski português



STUDENTS
PROFESSORS
BUSINESSES

HOME
ABOUT FS-BIOTECH
OBJECTIVES
PARTNERS
RESULTS
RESOURCES
CONTACTS

PROFESSORS

CURRICULUM DEVELOPMENT

In the area of curriculum development, the teacher has the opportunity to implement innovative pedagogical methodologies. The main goal of curriculum development is the intentional transfer of the transversal skills valued by the labour market to the curriculum units. These skills are then developed and evaluated in the students under the supervision of the teacher. The curriculum development also enables the teacher to transfer to the students the concept of lifelong learning, of which the teacher is him/herself a model.

CURRICULAR DEVELOPMENT

TUTORIA

Email address:

Password:

Log In

remember me in this computer



Education and Culture DG
Lifelong Learning Programme

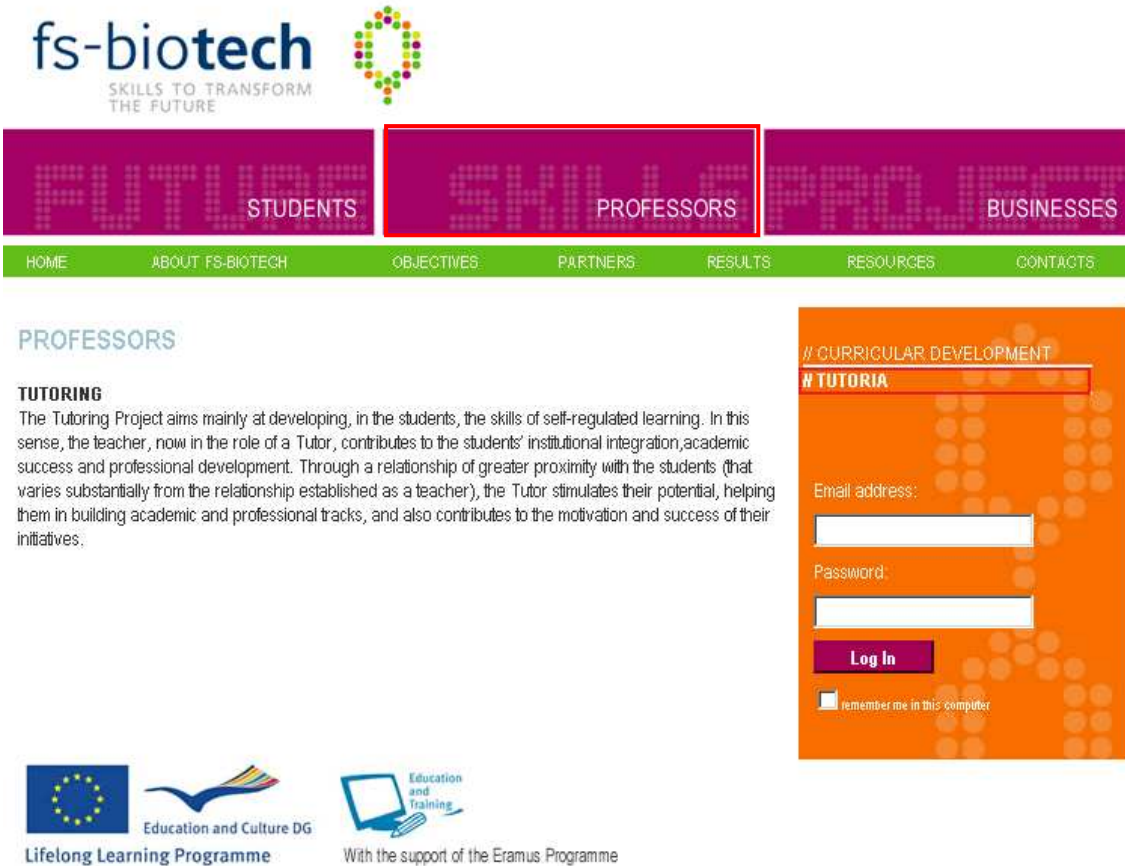


With the support of the Erasmus Programme

Tutoring

Is the development of learning skills, self-regulated, with the teacher being the student's tutor. The Professor needs to login in.

dansk deutsch english español polski português



The screenshot shows the website's navigation menu with 'PROFESSORS' highlighted. The main content area is titled 'PROFESSORS' and includes a 'TUTORING' section with a description of the project. On the right, there is a login form for 'CURRICULAR DEVELOPMENT' with fields for 'Email address' and 'Password', a 'Log In' button, and a 'remember me in this computer' checkbox. At the bottom, logos for the European Union, Education and Culture DG, Lifelong Learning Programme, and the Erasmus Programme are displayed.

PROFESSORS

TUTORING

The Tutoring Project aims mainly at developing, in the students, the skills of self-regulated learning. In this sense, the teacher, now in the role of a Tutor, contributes to the students' institutional integration, academic success and professional development. Through a relationship of greater proximity with the students (that varies substantially from the relationship established as a teacher), the Tutor stimulates their potential, helping them in building academic and professional tracks, and also contributes to the motivation and success of their initiatives.

Log In

remember me in this computer

Education and Culture DG
Lifelong Learning Programme

Education and Training
With the support of the Erasmus Programme

Businesses

dansk deutsch english español polski português



BUSINESSES

The Project FS-Biotech seeks the promotion of quality and innovation in the teaching-learning systems in the higher education institutions. In order to prepare the students for an adequate integration in the reality and the current characteristics of the labour market, it is essential to create the conditions to bring together the business world and the specific contexts of the higher education institutions. It is really a priority to promote their mutual implication at various levels.



Through a close cooperation with the companies, we intend to determine a Skills Profile of the Biotechnology graduates (in the areas of food, beverage, energy, environment, pharmaceutical, biomedical, etc.). This study will be carried out in five countries (Portugal, Ireland, United Kingdom, Germany and Poland). The Skills Profile enables the identification of the transferable skills that are valued by the market, and that can be developed by the Higher Education Institutions. This measure will serve as a basis to the activities, such as the Curriculum Development, the Individual Coaching or the Tutoring. With these activities, we intend to create the conditions for cooperation, reflection, communication and exchange between companies, students and teachers, which will reveal beneficial for all.

QUESTIONNAIRE

1



1 – Questionnaire – In the businesses area is provided a questionnaire with the objective of understanding the businesses needs.

Questionnaire

In the businesses area is provided a questionnaire with the objective of understanding the businesses needs.



QUESTIONNAIRE: COMPANIES

PART 1

We kindly ask you to classify the skills listed below according to:

- How important it is for a recently graduated student to demonstrate these skills;
- If you feel that it's the Higher Education Institution's (HEI) responsibility to develop the skill in recent graduates, or if it's the companies' responsibility.
- How important it is for an employee with 5 years of experience to demonstrate these skills;

1. Problem Solving and Analytic

Identifying, prioritizing and solving problems, individually or in groups; the ability to ask the right questions, sort out the many facets of a problem, and contribute ideas as well as answers regarding the problem.

Recent graduates::

- Very important
- Important
- Not too important
- Not at all important

HEI's responsibility for developing the skill in recent graduates:

- Yes
- No

Someone with 5 years experience:

- Very important
- Important
- Not too important
- Not at all important

2. Decision Making

Making timely decisions on the basis of a thorough assessment of the short and long-term effects of decisions, recognizing the political and ethical implications, and being able to identify those who will be affected by the decisions made..

Recent graduates::

- Very important
- Important
- Not too important
- Not at all important

HEI's responsibility for developing the skill in recent graduates:

- Yes
- No

Someone with 5 years experience:

- Very important
- Important
- Not too important
- Not at all important



Contacts

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