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Supervisor Training

Deliverable D2.2 Month Due: M3 Month Delivered: M3

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Project coordinator organisation name	UNIVLEEDS
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Dissemination Level of Report

PU	Public	х
PP	Restricted to other program participants (including the Commission Services)	
RE	Restricted to a group specified by the consortium (including the Commission Services)	
СО	Confidential, only for members of the consortium (including the Commission Services)	

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1. Introduction

Supervision is one of the corner stones of PhD process. This important, indeed critical relationship, between research academic and the postgraduate researcher (PGR) is of critical importance to the successful completion of the PhD lifecycle and the wider professional development of the candidate. It is increasingly seen as providing a young innovator as having the necessary skills for a career in industry as well as academia.

2. Supervision within BioTrib

The supervisor-PGR relationship is a key aspect of the delivery of the programme of research training that is aligned with the Principles of Innovative Doctoral Training (Table 1). This is achieved either directly in ensuring a support professional environment or indirectly through contributions to wider regulations, standards and contribution to the broader research environment.

Table 1: Adherence to the Principles for Innovative Doctoral Trainingⁱ by BioTrib

Attribute	Evidence
Research	All five universities are in the global 1%. Three in the top 100 with two, ETH Zurich and Imperial in the
Excellence	top 10 (Times) - all make significant investments to maintain their positions (e.g. UNIVLEEDS has
	invested over €500M in new facilities including the new BRAGG infrastructure complex for
	engineering). All have international reputations with facilities to support ESRs. The industrial
	beneficiaries are leaders in their fields with e.g. SimSol being a leading simulator manufacturer.
Attractive	As can be seen from the institutional description in section 5 the ESRs will be hosted in 'state-of-the-
Institutional	art' facilities with high end computational and experimental equipment as well as experienced support
Environment:	services familiar with EU grants. Each beneficiary provides a supportive professional environment,
	adhering to the European Charter for Researchers ⁱⁱ .
Interdisciplinary	All the ESRs will be located in substantial engineering groups which have significant expertise in fields
Research Options	such as Tribology (UNIVLEEDS, LTU), Biomechanics (ETH Zurich) Computational Fluid Dynamics
	(IMPERIAL), and Polymer Science and Multifunctional biomaterials (LTU) and Material Science (UU),
	which together converge to form an interdisciplinary collective. Exposure to other fields will be
	generated through colloquium series, application of novel techniques in bioengineering and the
	supervision by personnel from outside the core medical engineering field.
Exposure to	Exposure to industry is a key feature of bioengineering where researchers are exposed to different
industry and	sectors, most notably the healthcare and medical device manufacturing domains. In BioTrib this will
other relevant	be enhanced through the delivery of industrial and/or clinical secondments, supervision by
sectors	experienced personnel from different sectors and participation in the career development plan.
International	The ESRs have significant opportunities to develop an in-depth understanding of the Pan-European
networking	dimension in healthcare engineering and the development of deep and lasting networks. This will be
	gained through secondments, short visits, shared research goals (see the WP descriptions) and
	conference presentations. We have 3 entities from outside Europe, 2 from China and 1 from Australia
	reflecting the truly global aspect of the medical device market.
Transferable skills	Transferable skills training is provided through practice based training, network wide courses delivered
training	in BioTrib and local host training at each beneficiary. In particular, the Innovation Manager will provide
	mentoring and tutoring on the requirements for successful exploitation. Secondments play a key role
	in the uptake of transferable skills by each ESR through placement in an environment not accessed in
	the academic units alone.
Quality Assurance	Each of the Universities has well-honed administrative processes that are transparent and accountable
	over the whole lifecycle; from application to final career option. The lead University, UNIVLEEDS, holds
	the 'HR Excellence in Researchiii accreditation awarded by the EC in recognition of its commitment to
	ensuring good conditions and career skills for researchers.

BioTrib is delivered with experienced supervisors being a key and central resource to the Network. As well as having experience of one to one or small team supervisions, they have contributed to the wider community in terms of supervisory training, leadership and regulation.

3. Quality of the supervision

To allow the creation of a common platform and to enable consistency across partners a Supervision Training event was held on 16th February 2021. Prof Hall, who was Co-Head of the Graduate School: Physical Sciences and Engineering at the University of Leeds, delivered this training event. This event set out the roles, responsibilities and expectations of the supervisory teams within BioTrib including the use of the Personal Career Development Plan (PCDP). This training will encompass the good practice guidelines set out in the European Charter for Researchers^{iv}, European Standards for PhD Education^v, Framework for Qualifications of the European Higher Education Area^{vi} and The Code of Conduct for the Recruitment of Researchers^{vii} together with local provision (e.g. the Quality Code, Chapter B11 set out by the Quality Assurance Agency for Higher Education in the UK^{viii}). In this context is important that the secondary supervisors are aligned with the ethos of local, ITN and EU expectation for supervision, given that they often come from a different sector. However, these supervisors often have a different perspective in terms of personnel management that can add to the culture and delivery of an exceptional PGR experience.

Each ESR will be allocated a primary supervisor as well as one or more secondary supervisors forming a supervisory team (**Table 2**). These supervisory teams are developed with the specific ESR in mind and reflect the interdisciplinary skills needed for the successful completion of the project. The main supervisor have expertise in the specific project field and dedicate at least 80 hrs per annum to each ESR. It is the primary supervisor who is responsible for the training, pastoral care, research and professional activities of the ESR during the PhD process. Supervisors will ensure that the ESRs receive and follow through with the training and research plans needed in order to be ready for their thesis defence within the allocated time, and achieve a degree tailored to high standards.

The ESRs will be recruited through an open, equality-led and transparent procedure which is informed by the necessary human resources' best practice and EU codes & laws as well as local guidance and legal responsibilities. Every effort will be made to ensure that both the recruitment and working environment are free from discrimination (e.g. at Leeds courses on Equality/Inclusivity and Unconscious Bias are mandatory by all personnel appointing staff). This will be further encouraged through explicit statements and referral to the generous mobility and family allowance available during the recruitment procedure, which we believe could further facilitate gender balance. Prior to arrival the ESRs will receive the practical information and guidance needed for a smooth insertion into the host country, including contracts, visa requirements and accommodation arrangements. Upon arrival they will acquire a structured introduction to the research group as well as wider resources such as library and language centre provision.

Structured supervisory meetings (minimum 24 per year) will take place regularly, for which agendas and minutes will be kept and logged in the ESR's PCDP. Discussions at supervisory meetings will revolve around advancement towards the global research objectives as well as individual training and career goals. In addition, group meetings will be undertaken, an environment which will allow social and research integration, enhanced critical skills and enable the ESR's project to be placed into the wider research and innovation context. All ESRs undertake a minimum of two secondments with one industrial internship as well as a second clinical and/or academic secondment.

3.1. Qualifications and supervision experience of supervisors

The supervisory team members have been chosen based on their relevant, complementary expertise, as well as their experience in research management and student supervision. All academic personnel have supervised a minimum of 5 PhD students and have considerable teaching experience both in terms of delivery but also in Quality Assurance and other Support Roles. All have experience of delivering training courses and modules to postgraduate students. Academic scientists-in-charge have experience in leading Work Packages in EU funded projects under FP7 or H2020 (e.g. Prof Ferguson led WP3 in LifeLongJoints, whilst Prof Persson is the Co-ordinator for Nu-Spine). Female role

models make up a significant number of 'scientists in charge' being at UU and LTU. Quality of the joint supervision can be assured by the experience of the joint supervision teams and the well-honed processes in each of the beneficiaries. Actionable feedback on potential setbacks may be identified through the supervision mechanism, namely written minutes of the regular supervision meetings. In addition, additional feedback will be given during the formal reviews that take place at regular intervals during the PhD lifecycle e.g. transfer stage at the University of Leeds. Feedback is validated at subsequent meetings to ensure compliance. The qualifications and supervision experience of academic supervisors of the ESRs are listed in

Table 3.

Table 2: ESR supervision and location

Researcher No.	Recruiting Participant (short name)	PhD awarding entities	Planned Start Month 0- 45	Duration (months) 3-36	Supervision
1.	ETH Zurich	ETH Zurich	8	36	Prof Stephen Ferguson, PD Dr Benedikt Helgason, Prof Dr Michael Leunig
2.	ETH Zurich	ETH Zurich	10	36	Prof Stephen Ferguson, Prof Dr Michael Leunig
3.	ETH Zurich	ETH Zurich	13	36	Prof Stephen Ferguson, Dr Joern Seebeck
4.	LTU	LTU	8	36	Prof Nazanin Emami, Prof Roland Larsson Prof X Wang
5.	LTU	LTU	13	36	Prof Nazanin Emami, Prof Roland Larsson, Prof Joanne Tipper
6.	UU	UU	8	36	Assoc. Prof Johan Kreuger, Prof Cecilia Persson
7.	UU	UU	8	36	Prof Cecilia Persson, Dr Pelle Mellin
8.	UU	UU	13	36	Prof Urban Wiklund, Prof Cecilia Persson, Dr Pelle Mellin
9.	UU	UU	13	36	Dr Gry Hulsart-Billström, Assoc Prof. Johan Kreuger, Prof Cecilia Persson, Prof Nils Hailer
10.	IMP	IMP	8	36	Dr Connor Myant, Dr Robert Hewson
11.	IMP	IMP	8	36	Dr Robert Hewson, Dr Connor Myant,
12.	ETH Zurich	ETH Zurich	8	36	Prof Stephen Ferguson, Dr Joern Seebeck
13.	UNIVLEEDS	UNIVLEEDS	13	36	Prof Richard Hall, Dr Mike Bryant, Dr Greg de Boer, Prof Anthony Redmond
14.	UNIVLEEDS	UNIVLEEDS	13	36	Dr Mike Bryant, Prof Richard Hall
15.	UNIVLEEDS	UNIVLEEDS	13	36	Dr Mike Bryant, Prof Richard Hall
Total	15			•	

The commitment to the work of the Biotrib ESRs by the supervisors will be ensured by:

- (1) The need to undertake a minimum number of supervision sessions per annum.
- (2) The fact that there are supervisory teams in which share the load.
- (3) These supervisors have exemplary records in PhD/ESR training and understand the processes within the PhD lifecycles to ensure successful completion.
- (4) The PCDP will allow the supervisory board to validate the supervision being undertaken and the quality of feedback being delivered.

Table 3: Supervisors at the Beneficiaries

Host	Supervisor	Specific qualifications	Supervision Experience
UU	Prof Dr Cecilia	Research: Materials synthesis and characterization, mechanical	15 PhDs (6 ongoing); 9
	Persson	properties, biomechanics; Training: Co-ordinator and lecturer at UG	post-docs;
		and PG levels.	
	Dr Gry Hulsart-	Research: In vitro and in vivo response to biomaterials. Training: PG	5 PhDs (1 ongoing); 10
	Billström	course responsibility. Student supervision.	MSc
	Assoc. Prof.	Research: Cell signaling, matrix biology, microfluidics, bioprining	12 PhD students (6 as main
	Johan Kreuger	Training: Course leader and lecturer at UG and PG levels.	supervisor: 3 ongoing),
ETH Zurich	Prof Stephen	Research: Biomechanics, biomaterials, mechanobiology; Training:	37 PhDs (8 ongoing); 11
	Ferguson	Co-ordinator and lecturer in courses on medical device design,	Postdocs (1 ongoing); >70
		clinical science and simulation.	MSc
	PD Dr Benedikt	Research: Biomechanics, simulation, biomaterials, orthopaedic	6 PhDs (4 ongoing); 20
	Helgason	devices; Training : Lecturer in finite element analysis, mechanics and	MSc
		research methods.	
UNIVLEEDS	Prof Richard M	Research: Biomechanics, Spinal devices; Training: Director of PGR	25 PhDs (8 on-going); 1
	Hall	studies for Engineering (600 students)	ongoing Postdoc
	Dr Greg De		
	Boer ^{ix}		
	Dr Michael	Research: Biotribology, Tribo-corrosion; Biomaterials; Training:	14 PhDs (10 ongoing);
	Bryant	Coordinator of UG courses. Manages secondments within iFS	2 post-docs
		UNIVLEEDS.	
IMPERIAL	Dr Hewson	Research: Computational modelling and optimisation, tribology	10 PhDs (6 ongoing), 3
		modelling across the lubrication regimes. Training: Programme	postdocs (1 ongoing); 25
		director of MSc (70 students).	MSc projects and 70 UG
			projects
	Dr Connor	Research: Experimental biotribology and rheology, Additive	5 PhD students (5
	Myant	Manufacturing. Training: Coordinator for the Imperial-Royal College	ongoing), 1 postdoc (1
		of Arts Global Innovation Design programme.	ongoing).
LTU	Prof Nazanin	Research: Design and manufacturing of self-lubricating,	8 PhD students (4
	Emami	multifunctional polymer composites, Biotribology, polymer-	ongoing), 6 postdoctoral
		tribology, Training : group leader for polymer-tribology at LTU,	fellowships (2 ongoing),
		Director of the National Research School in Tribology, Coordinator	>25 MSc projects,
		of the MSc in Tribology (part of Erasmus Consortium),)	
	Prof. Roland	Research: modeling and simulation of lubricated contact. PhD in	16 PhD (3 ongoing as main
	Larsson	1996, chair professor in Machine Element. Dean of the Faculty of	and 6 ongoing as co-
		Engineering Sciences 2016-2018, Training: Modelling of wear and	supervisor). Four
		friction in lubricated contacts. Modelling of Elastohydrodynamic	concluded postdoctoral
		processes under dynamic loading. Lubrication performance of	fellowship About 20 MSc
		environmentally adapted lubricants	project.

4. Supervisor Training Event

The event was held on 16th February 2021 and delivered on-line through Zoom.

The following is a description of the course material provided as a pre-read before the supervisory training:

- A series of lecture slides outlining (Appendix :
 - Standards with PhD training
 - Supervisor responsibilities
 - Characteristics of a PhD (student)
 - Features specific to BioTrib/ITNs
- A draft copy of the Training (and professional development) Plan deliverable D2.1.
- The European Charter for Researchers The Code of Conduct for the Recruitment of Researchers
- University Code of Practice for Research Degree Candidatures (University of Leeds)
 - Specifics will differ between Universities but the ethos of Supervision remains the same and is set out in section 4.
- A copy of the 'The Researcher Development Framework'

- The original source is acknowledged as the 'Vitae Researcher Development Framework'
- The following copyright statement is retained on the RDF and all the RDF Materials
 'Vitae, © 2010 Careers Research and Advisory Centre (CRAC) Limited'
- Link is provided 'www.vitae.ac.uk/rdf'

Notes from the Supervisor Training Event

Skills required of a PhD (industrial perspective):

It is noted that a high percentage of successful PhD candidates go into the industrial and/or commercial sector more generally.

Commercial aspects are important, but also the idea of academic freedom and not being constrained by commercial (short-term) aspects. This new knowledge might not lead to any non-academic impact immediately but may support further impact and exploitation going forward.

It was noted that PhDs tend to take on the more risky research questions as they are less constrained by project objectives and reporting requirements required in grant funding.

PhD's often lacked knowledge of project management and other organisational skills. [This is overcome to an extent in BioTrib as students will be taught and undertake exercises in Project Management as part of the Research Innovation and Management Course — equivalent to 2 days plus and assignment to develop a project plan for their own PhD. The course is designed for 4 days in total. An equivalent course in Nu-Spine was delivered on-line and we are currently discussing whether to deliver in this mode, face to face or in hybrid format].

There have been developments over the past 10-20 years of aligning PhDs with industrial requirements with a greater emphasis on skills training as well as research e.g. in the UK the advent of professional doctorates and integrated Masters/PhDs. Fast changing landscape – changing goals – methodology has become important not just results. Current reviews of what is required for a PhD are currently under review within Australia and Switzerland.

Quality of a PhD researchers:

A key skill is the idea of perseverance, tenacity and independence which is often overlooked. Minor differences in the position of PhD candidates in this respect

PhD submission:

UK – thesis (monograph) but have been moves to PhD by publication (e.g. at the University of Leeds, Faculty of Engineering).

Sweden and Switzerland – PhD by publication. No resubmission allowed in Sweden.

Failure rates <3-5 % in all countries.

PhD lifecycle:

Sweden – a combination of thought courses credit and research credits to achieve total of 240 ECTS in maximum four years (Figure 1). Optional half time assessment, exam/seminar open

– can accrue an official degree half way – licentiate. Final submission and public defence assessed by three to five independent examiners (examination committee). Questions from opponent, examination committee and the audience.

Swiss – under review.

Australia – under review, currently just submission which is reviewed by three examiners (score approach) but may include viva voce - can make adjustments.

Recruitment:

Behavioural interviews becoming influential in choosing candidates/applicants. Identifying and discussing real world examples.

Opportunities to reflect diversity are important i.e. ensuring gender representation of the reviewers at all stages of the appointment process is important. Record and retain the shortlisting scores, notes etc is important.

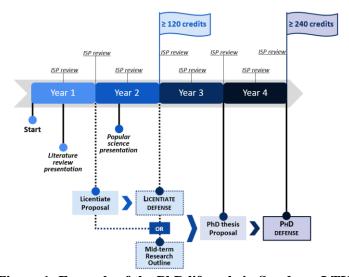


Figure 1: Example of the PhD lifecycle in Sweden – LTU.

Appendix: 1 – Additional Information:

European Regulations

THIRD CYCLE: DOCTORAL EDUCATION - Framework for Qualifications of the European Higher Education Area

http://ehea.info/cid102847/third-cycle-doctoral-education-2009.html

http://ecahe.eu/w/index.php?title=Framework for Qualifications of the European Higher Education Area#Third cycle - PhD

EU researcher descriptors:

https://euraxess.ec.europa.eu/europe/career-development/training-researchers/research-profiles-descriptors

More Information on the European Charter and the Code https://euraxess.ec.europa.eu/jobs/charter

Providing researchers with the skills and competencies they need to practise Open Science https://ec.europa.eu/research/openscience/pdf/os-skills-wgreport-final.pdf

Examples of the Specific Supervision Requirements/Codes of Practice of University of Leeds and Uppsala:

Uppsala University:

https://dn.uppsalastudentkar.se/content/rules-and-rights/phd-handbook

University of Leeds:

http://ses.leeds.ac.uk/download/713/code of practice for research degree candidatures 201516

ETH Zurich:

https://hest.ethz.ch/en/doctoral-studies/documents.html

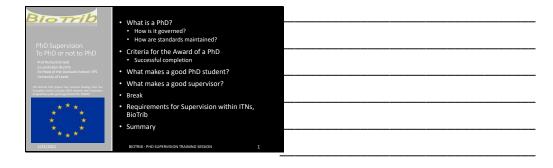
Imperial:

https://www.imperial.ac.uk/media/imperial-college/administration-and-support-services/registry/academic-governance/public/academic-policy/codes-of-practice-for-research-degrees/Code-of-Practice-for-Research-Students.pdf

http://www.imperial.ac.uk/about/governance/academic-governance/regulations/2019-20-regulations-research/

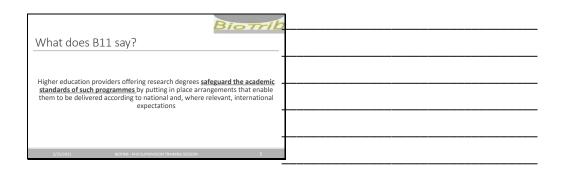
Appendix: 2 – Lecture Slides

Slide 1



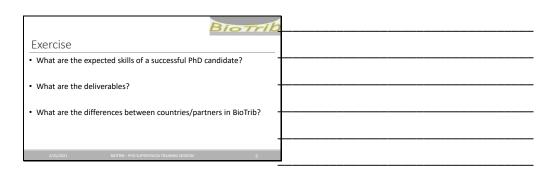
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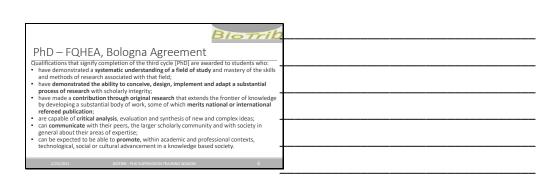
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PhD Context	
One of the most established postgraduate qualifications. Apprentice/Master Model Requirement: candidate to produce work demonstrating original thought, based on independent study	
Diversified – needs of employer/stakeholders Standard PhD – Research only Integrated PhD – European Style Professional Octorate Professional Octorate	
Examination Submission of a thesis (with papers) Wire –closed or open defence	
Conform to European Standards Framework for Qualifications of the European Higher Education Area (FQMEA) For Example — UK National Standards – QAA – B11 Research degrees	
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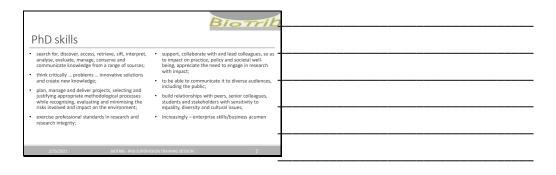


Biotrib	
Why academic standards?	
Stakeholders (industry, funders etc) need to be assured that the standards are consistent, transparent and of sufficient quality over time.	
Importance: Promotes trust and value in the award Provides guidance to supervisory teams on what the expectations Recognises the efforts PGR researchers have attained in reaching those standards	
 Allows employers to understand the skills/knowledge/abilities of the awardee across countries etc 	
2/23/2021 BIOTRIB - PHD SUPERVISION TRAINING SESSION 4	
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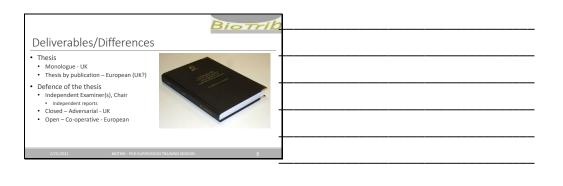
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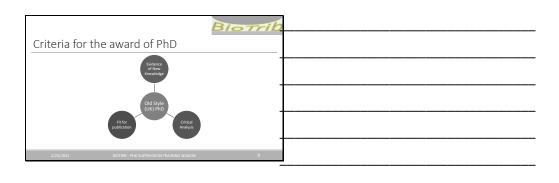


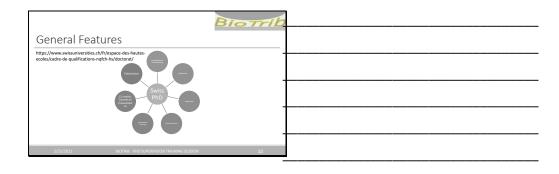




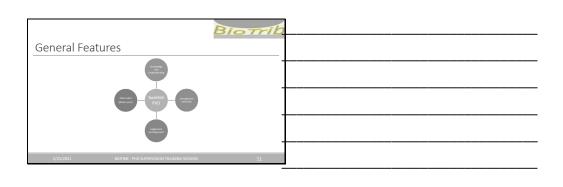
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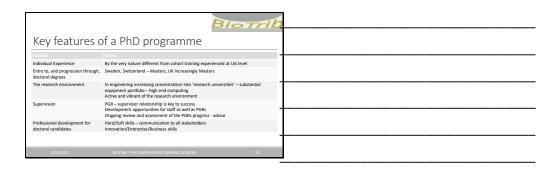


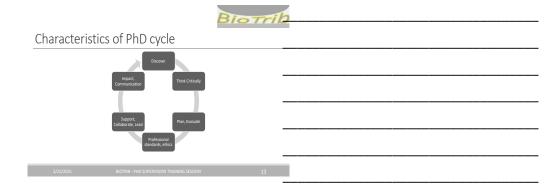




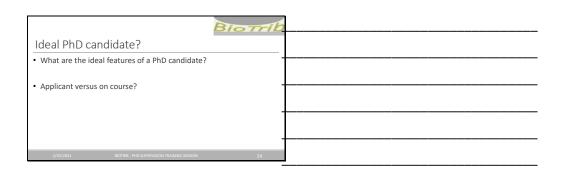
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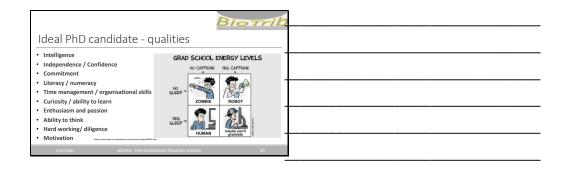






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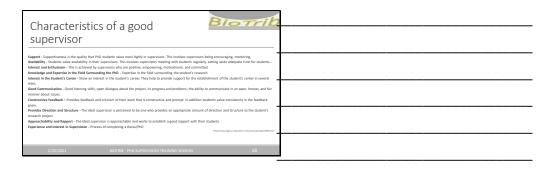




Role of the supervisor Subject specialist: 1 To make sure you are on track and doing what you are supposed to and reaching important milestones 1 To offer intellectual and academic advice on the literature and unit of analysis 1 To provide feedback on your obcie of methodology 1 To offer contender on research design designs.
To make sure you are on track and doing what you are supposed to and reaching important milestones To offer intellectual and academic advice on the literature and unit of analysis To provide relevance on your choice of methodology
To offer intellectual and academic advice on the literature and unit of analysis To provide feedback on your choice of methodology
To provide feedback on your choice of methodology
To other counsel on research design decisions
To read through and comment on draft chapters/papers
Advisor:
To direct you to relevant training and courses (for example, methods training)
To point you in the direction of relevant funding streams or conferences
To a certain extent, they often provide emotional and pastoral support
The supervisor is not there to design the research programme, or to plan, structure or write the thesis.
Supervisors advise and PGRs decide!

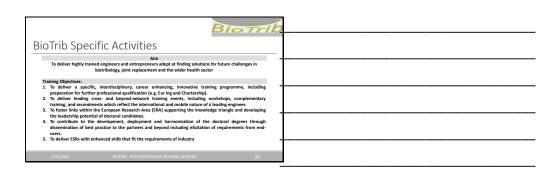
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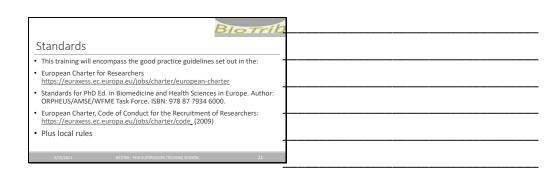
Biotrib	
Supervisor responsibilities	
Supervisors are responsible for various activities including, but not limited to Conducting, with the student, a training needs analysis (including ethical issues) Approving a timetable for the work of the student; Advising on all aspects of the research and thesis preparation including ethical procedures and review; Commenting within a reasonable time on all written work submitted by the student;	
 Making written reports on the student's progress as University/Faculty/School practices require; Arranging regular meetings with the student and ensuring, in partnership with the student, there are written records of formal supervision meetings; Ensurine the student receives written feedback on the assessment of progress, and to draw to the attention of the 	
student problems when they arise; Bring to the attention of the Postgraduate Research Tutor any concerns about a student's unsatisfactory progress; Reading and commenting on the whole of the draft thesis prior to submission provided it is made available by the student in reasonable time; Reporting to the Faculty/School when there has been no contact with an individual research student affecting the	
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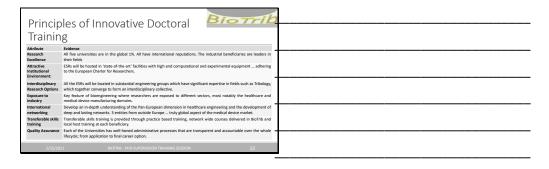


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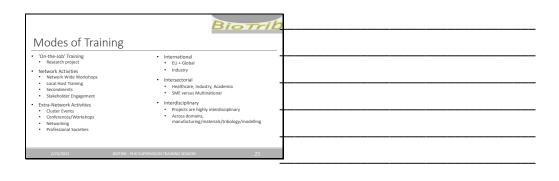
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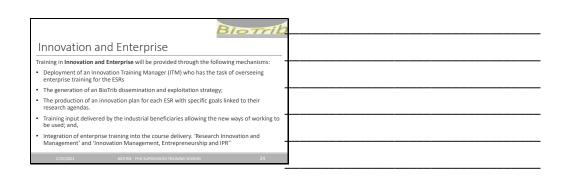


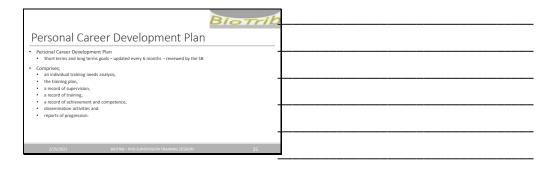




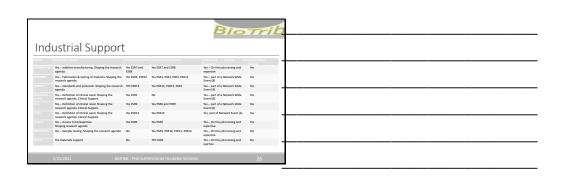
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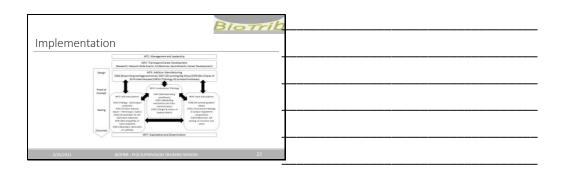


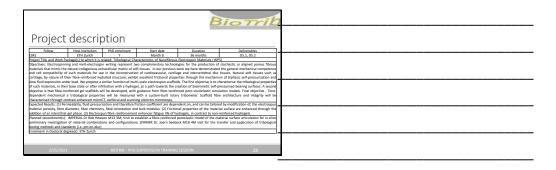




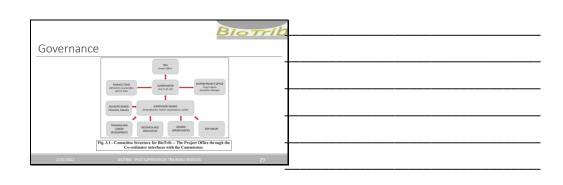
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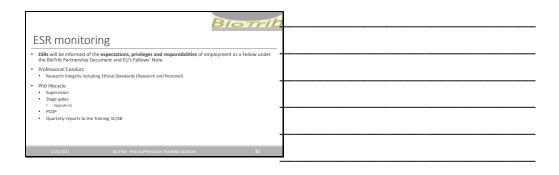






Slide 29





BioT	rib	 	
Summary			
PhD – internationally agreed quality standards			
PhD characteristics			
What is A good PhD candidate?			
A good supervisor?			
BioTrib Specific features			
Modes of Training Innovation and Enterprise		 	
Personal Career Development Plan			
Industrial/Healthcare Support Implementation			
прыными	+		
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Biotrib	
Case Study	
The Early Stages	
It is early December. You are reviewing Sarah's literature review. She is a diligent PGR and the literature review is thorough and shows an understanding of the key research questions. However, her work lacks a critique of the literature and does not clearly identify the research gaps. She has arranged a meeting with you this Wednesday.	
What do you want to discuss with Sarah at this meeting?	

Biotrib	
Case Study	
Keeping on Track	
It's October. Sarah has come to see you as she wants to change the direction of her project form that agreed at Transfer (before which there had also been a lot of discussion about the need to narrow down the scope of her project). You've had some	
discussion adduct the need to harrow down the scope or nei project). Tour we had some discussion of this via email, where you advised against the change as you don't think it has the same potential as the work she had done prior to Transfer. She is adamant that she wants to make this change.	
Sile Walls to Halle this change.	
What do you do now?	
-	

Endnotes

https://euraxess.ec.europa.eu/sites/default/files/policy_library/principles_for_innovative_doctoral_training.pdf_2011_

[&]quot;The European Charter for Researchers https://euraxess.ec.europa.eu/jobs/charter

iii HR Excellence in Research - https://www.vitae.ac.uk/policy/hr-excellence-in-research-background/hr-excellence-in-research/hr-excellence-in-resea

^{iv} European Charter for researchers, https://euraxess.ec.europa.eu/jobs/charter/european-charter

^v Standards for PhD Ed. in Biomedicine and Health Sciences in Europe. Author: ORPHEUS/AMSE/WFME Task Force. ISBN: 978 87 7934 6000.

vi Framework for Qualifications of the European Higher Education Area.

http://ecahe.eu/w/index.php/Framework for Qualifications of the European Higher Education
Area

vii European Charter, Code of Conduct for the Recruitment of Researchers: https://euraxess.ec.europa.eu/jobs/charter/code (2009)

viii Chapter B11 of the Quality Code: Research Degrees https://www.qaa.ac.uk/docs/qaa/quality-code/chapter-b11 -research-degrees.pdf 2013

ix Dr Greg has replaced Prof Anne Neville who has retired on the grounds of ill health.