Development of the Intellectual Property Lens

The intellectual property (IP) lens on the Vitae Researcher Development Framework was developed by Vitae and the Intellectual Property Office (IPO) drawing on a range of expertise and experience through consultation with representatives from institutions with experience of developing researchers. The lens links to the competencies developed by the IP for Research education programme.

About the Intellectual Property Office

The Intellectual Property Office (IPO) is the official UK government body responsible for intellectual property (IP) rights including patents, designs, trade marks and copyright. It is an Executive Agency of the Department of Business, Energy and Industrial Strategy (BEIS). It aims to stimulate innovation and enhance the international competitiveness of British industry and commerce. It offers customers an accessible, high quality, value for money system both nationally and internationally, for granting intellectual property rights.

"Knowledge exchange, commercialisation and collaboration present different pathways to realise impact. The IPO is committed to supporting institutions to make informed decisions about using their intellectual property (IP) by developing understanding of IP and its potential among researchers.

We are therefore delighted to have worked with Vitae to develop the IP Lens to help researchers develop the knowledge, behaviours and attitudes needed to navigate the IP environment and be confident using IP to maximise the impact of their research".

Guy Robinson, Deputy Director, Innovation Directorate

How to use the Intellectual Property Lens

Researchers may wish to use this lens to:

- Identify how understanding intellectual property can contribute to their professional development as a researcher
- Identify how the skills and attributes they have developed through research can contribute to, or underpin their development in managing their intellectual property (IP)
- Select areas that they need to develop to be more effective in understanding and maximising their intellectual property and use this to inform development reviews
- Provide evidence of the transferability of their
 IP skills in their CV, in job applications and at interviews both inside and outside of academia

Researcher developers and staff working in Technology Transfer Offices may wish to use this lens to:

- Demonstrate to researchers and other stakeholders the importance of understanding the implications of intellectual property and how it can contribute towards the overall professional development of researchers
- Enable researchers to recognise the learning they have acquired about intellectual property and highlight the transferability of these abilities commercially
- Assist researchers to plan their career development taking into account commercialisation and intellectual property
- Work with researchers to maximise opportunity when commercialising research by providing complementary support eg. income and funding generation

To protect and maintain the integrity of the Vitae Researcher Development Framework (RDF) and the Researcher Development Statement (RDS) and to ensure a consistent approach to the development of lenses on the RDF, anyone wishing to create a lens on the RDF should seek permission from Vitae, and must adhere to the RDF conditions of use. Enquiries regarding the development of a lens on the RDF should be directed to rdf@vitae.ac.uk

For further information about the range of Vitae activities go to www.vitae.ac.uk or contact website@vitae.ac.uk

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Intellectual Property lens on the Vitae Researcher Development Framework

Overview

The Vitae Researcher Development Framework (RDF) underpins a major new approach to developing world-class researchers. The framework has been developed by and for researchers working in higher education as an aid to planning, promoting and enhancing professional and career development. It articulates the knowledge, behaviours and attributes of successful researchers and encourages all researchers to realise their potential.

This is one of a series of lenses on the Vitae Researcher Development Framework.

This lens links to the IP for Research education programme, which enables researchers to explore intellectual property rights (IPRs) and how they relate to knowledge exchange and commercialisation. The programme consists of six short guides available online and an interactive workshop.

Visit www.ipo.gov.uk/ip-support for further information.

Supporting materials related to this lens are available at www.vitae.ac.uk/rdflenses

Purpose of a lens

This lens highlights the importance of understanding intellectual property (IP) in the professional development of researchers. The lens provides an overview of the key knowledge, behaviours and attributes that researchers need to develop to ensure they understand IP and how they can use it to maximise the social and economic impact of their research.

Context

The Intellectual Property Office (IPO) is committed to delivering an an IP system that supports innovators, creators and entrepreneurs. This includes educating the next generation about how to develop, use and respect IP. Their IP for Research education programme aims to develop an understanding of IP and its potential amongst doctoral and early career researchers, including opportunities for commercialisation.

Describing intellectual property and intellectual property rights

In this lens we use the following definitions:

Intellectual Property (IP) is a term which refers to creations of the mind, which are intangible but still valuable. This includes things like inventions, brand names, creative works and product designs.

Intellectual Property Rights (IPR) are the legal instruments that protect the various different kinds of IP trade marks, designs, copyright and patents are the types of IPR. These provide the owner with the legal right to stop someone else from using, commercialising or copying the IP without the owner's permission.

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Vitae Researcher Development Framework

Intellectual Property for Research Lens





Behaviour:

Builds relationships in academic and commercial contexts

Builds and sustains collaborative relationships and works pro-actively to create and develop knowledge with a range of stakeholders

Respects the inclusive and collegial nature of researcher relationships; recognises potential partnerships with a range of stakeholders to generate new ideas

Knowledge of:

Appropriate communication and dissemination mechanisms for different audiences

The importance of publishing and disseminating research results and impacts

Communicates effectively with a range of audiences through different techniques and media

Actively engages in publication and dissemination of research results and impacts

Knowledge of:

The social and ethical implications of research, and public attitudes to these issues

Contributes to increasing public awareness, engagement and understanding of research and associated impacts

Identifies innovative trends, ideas and applications; is enterprising and entrepreneurial within and beyond academia

Knowledge of:

The principles of intellectual property rights (IPR) and copyright issues, as they relate to research, its commercialisation and dissemination

Behaviour:

Respects, acknowledges and attributes the contribution of others

Seeks to protect, where appropriate, the intellectual assets arising from research and to maximise the wider value of research findings

Acts with professional integrity in all aspects of research governance

Acts confidentially, ethically and with integrity

Uses institutional/organisational resources responsibly and appropriately

Attitude:

Respects, upholds and meets professional standards and requirements

Shows integrity

Collegiality Team working People management Supervision Mentoring Influence and leadership Collaboration

Working with others

Engagement,

skills needed to engage with,

influence and impact on the

economic and broader context

Domain D

Domain C

Financial management

Infrastructure and resources

academic, social, cultural,

Research governance

Equality and diversity

Communication methods

Publication

Communication media

Teaching

Enterprise

Policy

Public engagement

Society and culture

Global citizenship

Health and safety

Ethics, principles

and sustainability

Legal requirements

Respect and confidentiality

Attribution and co-authorship

IPR and copyright

Appropriate practice

Research strategy

Risk management

Income and funding generation

Project planning and delivery

Subject knowledge Research methods: theoretical knowledge Research methods: practical application Information seeking Information literacy and management Languages

Academic literacy and numeracy

Analysing

Knowledge base Synthesising Critical thinking **Evaluating** Problem solving

influence and impact **Knowledge and** This domain relates to the intellectual abilities knowledge, understanding and

This domain relates to the knowledge and intellectual abilities needed to be able to carry out excellent research

Domain A

Domain B Personal effectiveness

and organisation This domain contains the This domain relates to the knowledge of the standards, personal qualities, career and equirements and professional self-management skills conduct that are needed required to take ownership for the effective for and engage in professional management development of research

> Finance, funding Professional and career development

Preparation and prioritisation Commitment to research Time management

Inquiring mind

Innovation

Intellectual insight

Intellectual risk

Enthusiasm

Perseverance

Self-confidence

Integrity

Self-reflection

Responsibility

Argument construction

Responsiveness to change Work-life balance

Career management Continuing professional development Responsiveness to opportunities

Reputation and esteem

Behaviour:

Commercial awareness, appreciation of commercial issues, tools

Corporate environment, its aims, drivers, needs, culture & language, strategies, structures, governance, policies, procedures, approval systems

Awareness of intellectual property issues

Make original contributions to knowledge

Thinks originally, independently and critically; develops theoretical concepts

Behaviour:

Develops new ways of working; has novel ideas and realises their potential

Takes intellectual risks; challenges the status quo

Attitude:

Takes a creative, imaginative and inquiring approach to research

Attitude:

Is resilient and perseveres in the face of obstacles takes responsibility for self and others

Shows integrity

Behaviour:

Anticipates and responds to directions and trends in research

Attitude:

Is flexible and responsive to change

Behaviour:

Maintains and develops relevant skills set and experience in preparation for a wide range of opportunities within and outside

Actively networks for professional and career purposes and seeks to enhance research reputation and esteem