

## 1b. Technical Experience in TCP area - Developing research tasks and leading working groups

### Research task experience

My core role as an academic is to identify research gaps, write grants to secure funding to undertake work to fill such gaps. I have published a number of academic papers in peer reviewed journals, as well as prepared a number of reports for both my role in [REDACTED] but also for private consultancy work I have undertaken over the years (see CV). I spent c.1 year working in the UK government so am privy to preparing policy briefings or evidence syntheses designed for policy makers, senior civil servants and ministers.

[REDACTED]

In my day job as an academic, I have led a research portfolio in excess of £5m, predominantly made up of 6 core project on which I was Principle Investigator. I am currently leading a [REDACTED]

[REDACTED]. We are working with universities, research institutes, industry associations and private companies. My role is to set strategic direction for the project and am ultimately responsible for its successful delivery.

[REDACTED]

[REDACTED]. This demonstrates my range in managing both professional and research staff across a variety of knowledge and experience.

As well as my research leadership, I am also [REDACTED]

As well as relationship building with industry and securing funding, it is also my role to deliver training to students and to support the development of highly successful professionals who will be able to move seamlessly into industry. [REDACTED]

[REDACTED]

[REDACTED]. Hence I am confident that I will be able to proactively project manage and undertake necessary admin for this role.

## Annex topics

### 1. Communications

As identified in 1a, communications and education around bioenergy are essential. I would propose the most pressing annex should be focussed on education and communications. [REDACTED]

[REDACTED] I am developing pipelines to make our work more accessible to the general public through the use of social media for example.

I would be keen to see an annex which can bring into sharp focus how the UK can improve education and communication around bioenergy. First work should be conducted on where areas of misunderstanding or mistrust of bioenergy is, then work should begin on how such information can be communicated. Key areas to start based on my previous experience include the difference between biogenic and fossil carbon, how forest management works, where pellets are sources from (waste wood), making the public more comfortable with cutting trees (current high sentiment for woodland) etc.

### 2. Biodiversity

Biodiversity is another key area which requires further research. Initial work for the UK shows that SRC willow can have a number of positive benefits on the landscape relative to agriculture including for pollinator species (Donnison *et al.*, 2021). Miscanthus shows fewer benefits due to annual harvesting (Rowe *et al.*, 2011, Donnison *et al.*, 2021). However, more work into additional landscape benefits that can be derived from dedicated bioenergy crops will be beneficial. Then an exploration into how translation of such benefits into tangible outcomes can be achieved for farmers such as through ELMs.

### Chairing experience

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED] This affords me excellent communication skills and comfort when commanding a room and chairing a committee of my peers.

## References

Donnison C, Holland R, Harris ZM, Eigenbrod F, Taylor G. (2021) Land-use change from food to energy: meta-analysis unravels effects of bioenergy on biodiversity and cultural ecosystem services. *Environmental Research Letters*, 16, 113005.

Rowe RL, Hanley ME, Goulson D, Clarke DJ, Doncaster CP, Taylor G, (2011) Potential benefits of commercial willow Short Rotation Coppice (SRC) for farm-scale plant and invertebrate communities in the agri-environment, *Biomass and Bioenergy*, vol. 35, no. 1, pp. 325–336, doi: 10.1016/J.BIOMBIOE.2010.08.046.

[REDACTED]

[REDACTED]

[REDACTED]