



Company: CrystalMaker Software Ltd

Knowledge Transfer Partnership: Accessible computer modelling tools for academic research.

As a continuation of an existing relationship, a Knowledge Transfer Partnership (KTP) with CrystalMaker Software Ltd provided an opportunity to undertake commercial collaboration and new engagements, leading to further research. The KTP meant taking a current commercial software programme and by adding new capabilities, transforming it from a purely visualisation and analysis product to one that has significant atomistic modelling capabilities.

Challenge

CrystalMaker Software Ltd is a UK based company with an international market in academic software for visualising crystal and molecular structures and predicting their diffraction properties. The company received existing customer requests for more high-end sophisticated modelling capabilities that would run on desktop machines.

To better understand the market and user requirements for an enhanced product, CrystalMaker sought academic input and materials modelling expertise incorporating the underpinning algorithms, and understanding of interatomic forces. This enabled accelerated development of new products to meet the market needs in this niche area.

Queen Mary is a customer of CrystalMaker and was able to offer the significant expertise in modelling which was required,

as well as an interest in developing new tools to support research and teaching.

Results

For CrystalMaker, the KTP led to the:

- Development of a more powerful modelling product
- Insight into advanced research needs
- Revision of licensing opportunities
- Scope to enter a more lucrative research market
- Increase in in-house knowledge
- An increase in turnover

For Queen Mary, benefits of the KTP included:

- Increased understanding of industry needs
- Exposure to product development pathways
- Opportunity to develop a new product
- Access to teaching and demonstration models of the product



The KTP project gave us a unique chance to engage with world-leading scientists and re-engineer our products to the highest levels."



DAVID PALMER
COMPANY SUPERVISOR,
CEO, CRYSTMALMAKER

"The Partnership gave us an incredible opportunity to help shape the tools for tomorrow's research and education in a way that is rarely possible."



PROF MARTIN DOVE
ACADEMIC SUPERVISOR,
SCHOOL OF PHYSICAL
AND CHEMICAL SCIENCES,
QUEEN MARY

Company Contact:

David Palmer,
Company Supervisor,
CEO, CrystalMaker
david@crystallmaker.com

Academic Contact:

Prof Martin Dove,
Academic Supervisor, School of Physical
and Chemical Sciences (SPCS)
martin.dove@qmul.ac.uk

KTP Associate:

Dr Leila Rimmer

Collaborate with us

