The Team:

KPMG’s Climate Risk and Decarbonisation Strategy (CR&DS) team serves a diverse international client base, advising firms on understanding the climate risks relevant for their business and how to manage these risks as part of the firm’s climate risk and decarbonisation strategy. In particular, the role of the CR&DS team is to help firms understand the physical and transition risks that they will face under various climate change scenarios, and the strategy they need to put in place to mitigate these risks as well as to take advantage of any opportunities arising. A key facilitator in performing that role is a best-in-class multi-industry climate risk model (KPMG Climate IQ) which is able to globally assess physical and transitional risks on a bespoke or an automated basis.

One of the core elements of KPMG Climate IQ is an Integrated Assessment Model (IAM) that links different models representing the global economy, as well as its energy, land, transportation and climate systems. The Climate Economics Team leads the development and enhancement of this suite of models working closely with the CR&DS team. It is part of the highly successful Economics practice at KPMG and is looking to strengthen and accelerate its climate economics capability.

We are looking for hires who are passionate about climate change, regard this as a systemic issue and who can fit in well to a dynamic, enthusiastic and highly capable team. The team typically works with clients at board level, offering interesting and varied work, and the opportunity to earn substantial rewards by expanding our successful practice worldwide.

The Role:

KPMG Economics is seeking a Manager with significant expertise in energy system modelling to join our growing Climate Economics team. The role will involve enhancing our integrated assessment modelling capabilities, in particular in relation to developing the energy system model, collaborating with leading academics and working closely with KPMG’s CR&DS practice.

Responsibilities

- Review and evaluate existing IAMs, in particular with a focus on energy system models
- Develop and enhance the in-house global energy system model, including appropriate linkage to the Integrated Assessment Models and adaptation for climate risk assessment
- Review, develop the methodology and implement energy-based climate change policies representation in the in-house global energy system model, and conduct forward-looking analysis, incl. policy impact assessments
- Initiate, where appropriate, and oversee development of conceptual frameworks and climate economics tools, in particular related to energy system modelling at regional/local level
- Contribute to the enhancement and development of the in-house integrated assessment model
• Draft and review methodology papers and client reports
• Conduct technical modelling and present to internal and external stakeholders
• Contribute to proposals and support delivery of engagements
• Provide coaching and training to other team members
• Contribute to publishing relevant results in peer-reviewed journals and participate in scientific conferences and workshops
• Participate in the professional development of KPMG Climate Economics team members

Skills, qualifications and experience required

• PhD in appropriate field with a focus on modelling (or comparable professional experience) combined with relevant research experience in energy economics
• At least 8 years of full-time relevant professional experience in research and applied policy
• Proven experience in developing energy system models (e.g., MESSAGE, REMIND) and other optimisation models to address a variety of climate policy issues
• Proficiency in computational modelling and analysis of complex economic (e.g., computable general equilibrium) and engineering systems in GAMS
• Strong analytical skills in energy system modelling and excellent command of applied energy economic theory including supply, demand, cost and price forecasting
• Strong empirical and engineering analysis background, including the ability to build, manage, and analyse large datasets that integrate energy balance, electricity generation, technologies characterisation and drivers for energy service demands
• Flexibility and adaptability to work across diverse projects and to use different economic tools
• Proven experience in working independently associated with excellent organisational and prioritisation skills, as well as with ability to lead a variety of complex evolving tasks through to completion
• Strong interpersonal and communication skills, both orally and in writing
• Ability to explain complex economics clearly to non- economists and apply economic concepts and techniques to real world situation
• Experience of managing teams and engaging with research/policy stakeholders
• Proven teamwork and successful experience working with multi-disciplinary teams
• Experience with version control systems (e.g., git, svn)
• Proficiency in multiple modelling and/or object-oriented languages is desirable

To apply for this position or if you have specific questions about the role please contact Laurent Cretegny, laurent.cretegny@kpmg.co.uk