



CURRICULUM VITAE

Padraig Cregg is a Senior Ornithologist with MKO with over 8 years of experience in both private practice and NGOs. Padraig holds a BSc (Hons) in Zoology and Masters in Evolutionary and Behavioural Ecology. Prior to taking up his position with MKO in December 2018, Padraig worked as a Senior Ornithologist and held previous posts with TOBIN Consulting Engineers, Energised Environments Ltd in Scotland, WSP Environment and Energy Ltd in Scotland and BirdWatch Ireland. Padraig has specialist knowledge in designing, executing and project managing ornithological assessments, primarily in the renewable industry. Padraig's key strengths and areas of expertise are in ornithology and ecology surveying and in writing Natura Impact Statements (NIS) and the Biodiversity chapter of Environmental Impact Assessment Reports (EIAR) to accompany planning applications. Since joining MKO Padraig has been involved in designing, executing and project managing the ornithological assessment on over 20 proposed wind farm developments. He has played a key role in project managing these planning applications through the statutory planning system, with more projects in the pipeline. Within MKO Padraig plays a large role in the management and confidence building of junior members of staff and works as part of a large multi-disciplinary team to produce EIAR and NIS Reports. Padraig has project managed a range of infrastructure projects, with an emphasis on wind and solar energy projects across the Ireland and the UK.

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| Current Role | Senior Ornithologist |
| Qualifications | <ul style="list-style-type: none"> ➤ M.Sc Evolutionary and Behavioural Ecology (University of Exeter, 2008). ➤ B.Sc Zoology (National University of Ireland, Galway, 2007). |
| Years of Experience | <ul style="list-style-type: none"> ➤ Padraig has over seven years' experience working in both the UK and Ireland primarily in the renewable industry. Padraig has a strong technical background in ornithology and ecology surveying and in writing Natura Impact Statements (NIS) and sections of Environmental Impact Assessment Reports (EIAR) to accompany planning applications. |
| Relevant Experience | <ul style="list-style-type: none"> ➤ Wind Farm Projects. Padraig has worked on over 40 wind farm projects in both Ireland and the UK. From his time working in the UK, Padraig provides expert experience in interpreting and implementing Scottish ornithological guidance documents (SNH, 2017) for the surveying of wind farms in an Irish context. Padraig's key responsibilities included: managing the in-house team and sub-consultants, directly liaising with the client and landowner, consulting with the Planning Departments and the Development Applications Unit (DAU), writing sections of and reviewing the Environmental Impact Assessment Reports and Appropriate Assessment (AA) Screening and Natura Impact Statements (NIS) Reports (as appropriate), reviewing GIS mapping and Planning Application drawings. ➤ Solar Farm Projects. Padraig has acted as Senior Ecologist and Project Manager for several Solar Farm Planning Applications. Key responsibilities include liaising directly with client, attending preplanning meetings with local county council, consulting with Development Application Unit (DAU), designing surveys, writing sections of the Planning and Environmental Considerations Reports and Appropriate Assessment (AA) Screening Report and Natura Impact Statement, as appropriate. ➤ Water Supply Project Eastern and Midlands Region (Irish Water). Padraig acted as the Senior Ornithologist for the Water Supply Project. He was responsible for the review and design of breeding and wintering bird surveys for this project: October 2016 to October 2018. He has undertaken consultation with Development Application Unit |





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| | <p>(DAU) and wrote sections of the Environmental Impact Assessment Report and Natura Impact Statement.</p> <ul style="list-style-type: none">➤ Mining Projects. Padraig was the Natura Impact Statement Expert Witness at Boliden Tara Mines Oral Hearing for a tailings extension and integrated constructed wetland for which Planning Permission was partially granted.➤ Road Projects. Padraig has acted as Senior Ecology on several roads projects in both Ireland and the UK. Project work included the design and execution of various ecological surveys, e.g. badger and bat surveys. The resultant outputs from this work include environment impact assessments and appropriate assessment reports. |
| Key Strengths & Areas of Expertise | <ul style="list-style-type: none">➤ Padraig has a strong technical background in ornithology and ecology surveying and in writing Natura Impact Statements (NIS) and the Biodiversity chapter of Environmental Impact Assessment Reports (EIAR) to accompany planning applications. |
| Practical Skills & Aptitudes | <p>Field Skills:</p> <ul style="list-style-type: none">➤ Padraig’s ornithological experience has involved carrying out a diverse catalogue of bird surveys throughout Ireland including multi-year studies (breeding, migratory and winter) for various environmental projects. In Scotland he spent two and a half years implementing bird surveys using Scottish Natural Heritage guidance documents to complete his survey work to best scientific practice. Many of his studies involved designing surveys to capture the seasonal change in avian communities at a site. Examples of this include; Breeding Raptor Surveys (following SNH & Hardey methods for species including Hen Harrier, Merlin, Peregrine, Barn Owl, White-tailed Eagle & Golden Eagle), Breeding Wader Surveys (following SNH, Brown & Shepherd and O’Brien & Smith for species including Golden Plover, Curlew, Lapwing, Dunlin & Snipe), Breeding Woodcock (following Gilbert methods), Migratory/Wintering Waterfowl (Following SNH and I-WeBS methods for species including (but not limited to) Whooper Swan, Greenland White-fronted Goose and wintering waders), Red Grouse Tape Lure Survey (following NPWS & BWI methods) Breeding diver species (following SNH & Gilbert methods) Woodland and Coastal species (following SNH and Gilbert methods).➤ Padraig also has experience of habitat surveying: Phase 1 habitat survey. Padraig has ecological assessment experience in undertaking mammal surveys (common & protected) including bat species, badger, otter and reptiles. Habitats present are also assessed in terms of their potential to support Irish mammals. |
| Management/ Supervision | <ul style="list-style-type: none">➤ Project manager and lead ecologist on large scale ecological projects.➤ Accustomed to working effectively as part of larger multidisciplinary project design teams.➤ Supervision of a team of ten internal ornithologist and the management of sub-consultants to coordinate the bird survey programme at MKO.➤ Within MKO Padraig plays a key role in mentoring junior members of staff. |
| Interpersonal & Communication Skills | <ul style="list-style-type: none">➤ Extensive experience in successful consulting with statutory ecological consultees including NPWS, Birdwatch Ireland and Inland Fisheries Ireland usually regarding sensitive ecological sites. |





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| | <ul style="list-style-type: none">> Significant experience coordinating approach to sensitive ecological sites between client and ecological consultees and on-site contractors, etc.> Development of technical working methodologies on behalf of contractors requiring understanding of both proposed works and sensitivities of site. |
| Licenses Held | <ul style="list-style-type: none">> Padraig has been a licence holder for the surveying of protected avian species on both the Red List of Bird of Conservation Concern in Ireland and Annex 1 of the EU Birds Directive, e.g. Red Grouse tape lure licence. |
| Physical / Other | <ul style="list-style-type: none">> Full Clean Driving Licence> Current Safe Pass Holder |



MKO, Tuam Road, Galway, Ireland. H91 VW84

+353 (0)91 735611 | info@mkoireland.ie | www.mkoireland.ie | [@mkoireland](https://twitter.com/mkoireland)

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Patrick Manley

CURRICULUM VITAE

Patrick Manley is an Ornithologist with MKO with extensive practical experience in field research. Patrick holds a BSc (Hons) in Geology. Prior to taking up his position with MKO in September 2016, Patrick worked as part of the conservation team in BirdWatch Ireland, on projects such as the Dublin bay birds project, Kilcoole Little Tern conservation project and the results based agri-environmental scheme for breeding waders. Patrick's key strengths and areas of expertise are in bird ecology & identification, GIS, project planning and fieldwork skills. Since joining MKO Patrick has been involved as an Ornithologist on several wind and solar energy developments, utilising a broad range of bird survey methodologies including breeding raptor, adapted brown & shepherd and waterfowl distribution. Patrick was also part of a team of bird usage surveyors working on the Shannon/Fergus Estuary. Within MKO Patrick plays an important role as part of the Ornithology team, working independently and planning field surveys in accordance with required standards. Patrick has managed the ornithological surveying at wind energy developments, engaging with sub-contractors and management.

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| Current Role | Ornithologist |
| Qualifications | <ul style="list-style-type: none"> ➤ BSc Geology, University College Dublin (2013). |
| Years of Experience | <ul style="list-style-type: none"> ➤ 5 years post graduate experience in wildlife conservation and monitoring. |
| Relevant Experience | <p>Relevant Work Experience</p> <ul style="list-style-type: none"> ➤ Field ornithologist as part of the Little Tern Conservation Project with BirdWatch Ireland for two breeding seasons (2015 & 2016). Patrick gained experience in monitoring and protecting a vulnerable species and in the collection, collation and analyses of large data sets. He was also responsible for liaising with the public, the writing of weekly reports and full technical reports at the end of each breeding season. ➤ Agri-Environmental Liaison Officer for the Results Based Agri-Environmental Payment Scheme with BirdWatch Ireland. Patrick gained experience in liaising with land owners, coordinating and finalizing terms with participants of the scheme. He also gained skills in the ecological applications for GIS, in training landowners in land management for breeding birds and in carrying out breeding bird surveys. ➤ Conservation Team Intern with the Dublin Bay Birds Project for BirdWatch Ireland. Patrick gained experience in compiling, proofing and analysing large datasets, as well as waterbird monitoring during various tidal and weather conditions and writing technical reports. ➤ Field Assistant with the Dublin Bay Birds Project with BirdWatch Ireland. Patrick gained experience doing waterbird surveys, radio tracking surveys and the tracking of colour ringed waders. He also gained experience in collating, proofing and validating large datasets. He was also responsible for fitting colour rings to waders during multiple catching sessions. ➤ Volunteer Bird Surveyor on various projects including the Irish wetlands bird survey, the Inishmurray all-island breeding bird survey, the national Hen Harrier survey and the countryside bird survey. <p>Relevant Surveys for MKO:</p> <ul style="list-style-type: none"> ➤ Derryadd Windfarm, County Longford (Client: Bord na Mona) Carried out Vantage point surveys, waterfowl surveys and breeding raptor surveys for this site. ➤ Timahoe Solar, County Laois (Client: Bord na Mona) Carried out breeding walkover surveys for this site. ➤ Lissinagroagh Windfarm, County Leitrim (Client: Coillte) Carried out Vantage point surveys for this site ➤ Slieve Rusheen Windfarm, County Cavan (Client: Coillte) Carried out Vantage point surveys, winter walkovers, hen harrier roost surveys and red grouse surveys for this site. |





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| | <ul style="list-style-type: none">➤ Cullenagh Windfarm, County Laois (Client: Coillte) Carried out Vantage point, breeding walkover and breeding raptor surveys for this site.➤ Carrownagowan Windfarm, County Clare (Client: Coillte) Carried out Vantage point surveys, waterfowl surveys, hen harrier roost surveys and winter walkovers for this site.➤ Glenard Windfarm, County Donegal (Client: Coillte) Carried out Vantage point surveys for this site.➤ Cahermurphy Windfarm, County Clare (Client: Mid Clare Renewable Energy Ltd.) Carried out Vantage point surveys for this site➤ Coole Windfarm, County Westmeath (Site located on raised bogs) Carried out Vantage point surveys, breeding walkovers, breeding raptor surveys, breeding woodcock surveys and waterfowl distribution surveys for this site.➤ Clonbern Windfarm, County Galway Carried out Vantage point surveys, and waterfowl surveys for this site.➤ Ardderroe Windfarm, County Galway (Client: Enerco) Carried out Vantage point surveys, hen harrier/white-tailed eagle roost surveys and waterfowl surveys for this site.➤ Boolynagheragh Windfarm, County Clare (Client: Enerco) Carried out pre-commencement hen harrier surveys for this site. |
| Practical Skills & Aptitudes | <ul style="list-style-type: none">➤ Planning and carrying out ornithological surveys.➤ Working Independently and effectively in the field.➤ Planning surveys with sub-contractors and management.➤ Data presentation.➤ Proficient in MS Office, GIS and MapInfo software.➤ Adhering to required guidelines and SOP's on bird survey methodologies.➤ Experience surveying birds using line transects, vantage point counts, flush counts, mist netting, radio tracking and GSM trackers |
| Management/ Supervision | <ul style="list-style-type: none">➤ Management of all bird surveys carried out on site.➤ Demonstrated ability to manage workload and plan surveys based on own initiative.➤ Experience managing field sites and coordinating large teams of volunteers for the Little Tern Conservation Projects 2015 and 2016➤ Experience coordinating and supervising volunteers during the all-island seabird survey on Inishmurray.➤ Experience coordinating and liaising with volunteers/surveyors with BirdWatch Ireland and Irish Midlands Ringing Group on various projects. |
| Interpersonal & Communication Skills | <ul style="list-style-type: none">➤ Extensive dealings with ecology team in planning of bird survey work and standard operating procedures.➤ Effective and clear communicator.➤ Proven ability to manage extensive survey requirements and collation of data upon completion.➤ Planning surveys with team members and sub-contractors.➤ Experience coordinating workloads and delegating tasks as a member of both large and small teams of volunteers on a number of different projects with BirdWatch Ireland and the Irish Midlands Ringing Group, often in challenging fieldwork environments.➤ Experience as lead author or co-author on technical project reports.➤ Managed public relations and public outreach for the Little Tern Conservation Project in 2015 and 2016 (including an appearance on RTE series "EcoEye" in January 2016). |





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| | <ul style="list-style-type: none">➤ Experience giving bird ringing demonstrations to various groups including BirdWatch Ireland branch members, Dublin Field Naturalist club and during heritage week. |
| Licenses Held | <ul style="list-style-type: none">➤ Full Clean Driving Licence.➤ Safe Pass. |
| Physical / Other | <ul style="list-style-type: none">➤ Ability to plan and organize fieldwork in line with published survey methodologies and company SOP's.➤ Qualified bird ringer and ringing trainer with British Trust for Ornithology |



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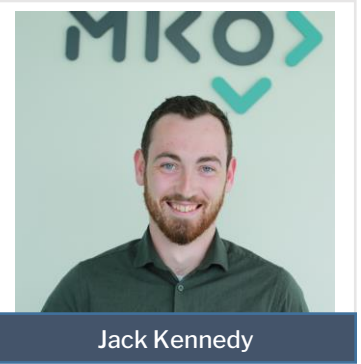
David is an Ecologist within the Ornithology Department at MKO Ltd. and has been a valuable member of the team since joining in March 2017. David graduated with an honours B.Sc. Degree in Environmental Science from NUIG in 2016. David has a wide range of ecological experience including vegetation surveys, terrestrial invertebrate surveys, freshwater invertebrate surveys, river surveys for salmonids and other fish species, small mammal surveys and habitat identification. David also has experience in GIS software systems for use in interpreting ecological data, including Mapinfo, ArcGIS, QGIS, DroneDeploy/DJI and Viewshed Analysis software. David has experience in report writing and received a first-class honour in his final year thesis during his undergraduate course. David has contributed heavily to several ornithology chapters for various onshore windfarm EIARs and associated habitat enhancement plans. He is also involved in the project management and communication process between surveyors, clients and other members of staff to ensure that the surveys are carried out correctly and efficiently.

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| Current Role | Ecologist (Ornithology Department) |
| Qualifications | <ul style="list-style-type: none"> ➤ B.Sc. (Hons) Environmental Science, 2nd Class Honours Grade 1 National University of Ireland, Galway. |
| Years of Experience | <ul style="list-style-type: none"> ➤ 3 years |
| Relevant Experience | <p>Ornithologist with MKO. Main duties and experience include:</p> <ul style="list-style-type: none"> ➤ Report writing; including interim progress reports for clients, EIAR chapters for Onshore Windfarm developments, Hen Harrier Habitat Enhancement Plans, and Collision Risk Modelling appendices associated with EIAR Ornithology Chapters. ➤ Involved in the preparation of Technical Appendices for various windfarm projects, and the creation of maps and figures for EIARs, including viewshed analysis. ➤ Responsible for managing and maintaining multiple datasets for various projects and incorporating this data in reports. ➤ Project Manager for bird surveys at Onshore Windfarm Sites around the country. Main responsibilities include management of datasets, liaising with field surveyors and reporting to clients. <p>July 2014 – Inland Fisheries, Roscommon:</p> <ul style="list-style-type: none"> ➤ Carrying out surveys of small rivers and tributaries around the Roscommon and Leitrim area. Also presented a display at the Ballygar Festival and performed data analysis on Salmon and Brown Trout numbers using Excel. <p>June 2014 – Teagasc, Castlerea, Roscommon:</p> <ul style="list-style-type: none"> ➤ Working in the offices and going on advisory farm visits concerning environmental issues such as Agri- Environmental Schemes and HNV farmland. |
| Practical Skills & Aptitudes | <ul style="list-style-type: none"> ➤ Experienced in Collision Risk Assessment for EIAR Bird Chapters using statistical analysis as per SNH guidelines (Band Model). Attended a CIEEM accredited course on Collision Risk Modelling held in the James Hutton Institute of Technology in Aberdeen, Scotland in January 2019. ➤ Proficient in using Microsoft Office Programs, various GIS Mapping Software, Viewshed Analysis and ZTV. ➤ Experienced in plant identification including vegetation relevés and quadrat surveys. ➤ Experienced in aquatic and terrestrial invertebrate collection and identification. ➤ Experienced in habitat classification. |



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| | <ul style="list-style-type: none">➤ Relevant undergraduate and postgraduate experience in the production of EIARs/EISs and Appropriate Assessment.➤ Involved in the production of several interim bird survey reports and EIARs/EISs.➤ Responsible for the preparation of data and GIS maps for use in ornithology reports/EIARs.➤ Highly efficient in viewshed analysis and Zone of Theoretical View (ZTV) Modelling for vantage points using, GIS software “Windfarm”.➤ Experienced in survey planning for Scope of Works and Fee Proposals of various bird survey tender applications.➤ Experienced piloting a DJI phantom 4 pro Drone and implementing DroneDeploy (a third-party app to allow automated flights), planning flights and interpreting maps generated from pre-planned flights. Registered SUA pilot with the IAA and attended and completed accredited pilot proficiency tests. |
| Management /Supervision | <ul style="list-style-type: none">➤ Project Manager for ornithological surveys for several onshore windfarm development sites around the Country.➤ Involved in the project management and survey planning of numerous windfarm projects.➤ Responsible for training and management of more junior members of staff. Training responsibilities include project management, GIS, viewshed analysis and data management.➤ Also responsible for training surveyors on GIS and data management and ensuring that their data submitted is of the highest quality.➤ Responsible for the quality of incoming data from surveyors through supervision and quality checks of submitted data and contacting surveyors regularly to ensure data is submitted on time and of a sufficient quality.➤ Regular health and safety contact for surveyors during weekend surveys and is responsible for preparing health and safety risk assessments for each site. |
| Interpersonal & Communication Skills | <ul style="list-style-type: none">➤ Regularly in contact with surveyors and clients as part of project management for various sites and projects.➤ Oral presentations during final year thesis (2016), as well as presentations on various microbiology, zoology and ecology modules throughout the four-year undergraduate course in NUIG.➤ Presented a display of fish species and eels for Inland Fisheries at the Ballygar festival in July 2014.➤ Conducted a knowledge sharing seminar for MKO staff members on the processes and applications involved in Collision Risk Modelling for Onshore Windfarm Developments.➤ Member of the sports and social committee within MKO. |
| Licenses Held | <ul style="list-style-type: none">➤ Full clean driver’s license.➤ Current Safe Pass holder.➤ Full member of Bat Conservation Ireland. |





Jack Kennedy

CURRICULUM VITAE

Jack Kennedy is a Field Ornithologist with MKO Ltd., having graduated with a BSc(Hons) Zoology from University College Cork. He has carried out seabird project work for Port of Cork and Birdwatch Ireland Black Guillemot survey, and upland fieldwork for the UCC Hen Harrier project SHINE. Through this practical experience Jack has a broad knowledge and skillset in both marine and terrestrial ecology. He also has strong skills in IT with Microsoft packages, data handling in Excel, SPSS and R/R Studio statistical softwares and use of MapInfo for ecological data visualization. Within the Ornithology Team at MKO he has collected, compiled, mapped and analyzed data for several windfarm projects.

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| Current Role | Field Ornithologist |
| Qualifications | <ul style="list-style-type: none"> ➤ BSc. (Hons) Zoology – University College Cork |
| Years of Experience | <ul style="list-style-type: none"> ➤ 1-2 years |
| Relevant Experience | <ul style="list-style-type: none"> ➤ Proficient in ecological survey techniques: Habitat mapping, vegetation surveys, small mammal surveying, transect and vantage point bird surveys. ➤ Microsoft Office specialist certified in Word, Powerpoint, Excel. ➤ Interpretation and visualization of data using MapInfo for inclusion in EIA. ➤ Vantage point surveying & disturbance monitoring at Port of Cork Common Tern colony. ➤ Surveyor for BirdWatch Ireland 4th National Seabird survey. ➤ Marine Mammal/seabird observer with Irish Naval Service. |
| Practical Skills & Aptitudes | <ul style="list-style-type: none"> ➤ Strong working knowledge of R/R Studio in ecological data visualisation and interpretation. ➤ Report writing, data interpretation. ➤ Planning and conducting observational field surveys at a number of windfarm sites around Ireland. ➤ Fieldwork survey techniques. ➤ Small watercraft handling & working experience at sea. |
| Interpersonal & Communication Skills | <ul style="list-style-type: none"> ➤ Presentation of thesis findings to University College Cork staff and students, Port of Cork and NPWS staff. ➤ Liaising with Irish Naval Service and Port of Cork authority, agricultural community, and general public on a range of project work. |
| Licenses Held | <ul style="list-style-type: none"> ➤ Full drivers licence 2014 (B/BE) ➤ STCW-95 Survival at Sea, Damage Control and Fire Fighting. |





Curriculum Vitae

Dr Patrick Crushell

BSc, MSc, PhD, CEcol, MCIEEM

Details

Position

Director and Principal Ecologist

Discipline

Ecology

Languages

English

Qualifications

- BSc Applied Ecology
- MSc Environmental Resource Management
- PhD Environmental Sciences (Peatland Ecology and Restoration)
- Chartered Ecologist and Full Member of the CIEEM

Key Skills

- Project management and client liaison
- Site and species surveys
- GIS (ArcGIS)
- Hydrochemistry coordinator
- Data management and analysis

Publications

- Author and co-author of peer-reviewed articles and books on peatland ecology and restoration
- Author and co-author of technical scientific reports

Other details

- Approved ecologist for the Native Woodland Scheme.
- Member of the Board of Directors of the Irish Peatland Conservation Council (2002- 2008)
- Member of the government appointed SAC Appeals Board

Profession Chartered Ecologist

Experience 19 years

Synopsis

Dr Crushell is a chartered ecologist working in the area of nature conservation and ecological assessment for over eighteen years. He has particular expertise in peatland ecology and has extensive experience of working on semi-natural habitats in Ireland. Patrick has worked as an ecologist on over 400 different projects for a range of organisations including; environmental consultancies, government agencies, engineering firms, local environmental groups, and NGOs. Projects that he has been involved in include impact assessments of various development proposals; pre and post - construction monitoring; wetland surveys; evaluation of designated sites; restoration and management of habitats; and baseline ecological surveys.

Selected Project Experience

Bellacorick – Castlebar 110kV, County Mayo (2013-2018)

Undertook detailed ecological surveys of structure locations within designated Special Areas of Conservation (SACs) to inform the Appropriate Assessment (AA) process. Co-authored NIS, and acted as Project Ecologist Works for construction phase.

Bellacorick – Moy 110kV, County Mayo (2013-2014)

Undertook detailed ecological surveys of structure locations within designated Special Areas of Conservation (SACs) to inform the Appropriate Assessment (AA) process.

Scientific Basis for Raised Bog Conservation Study (2013-2019)

Lead ecologist on a team of consultants preparing restoration and conservation plans for 53 raised bog SACs on behalf of the National Parks and Wildlife Service.

North South 400kV Overhead Line (2010-2016)

Project Ecologist for Cavan Monaghan Study Area on the 400 kV powerline. Prepared the ecological assessment and contributed to NIS. Attended oral hearing as expert witness on behalf of Eirgrid.

Clashavoon to Dunmanway 110KV Overhead Line, County Cork (2010-2017)

Lead ecologist responsible for preparation of ecology chapter of ER and NIS. Attended as expert witness dealing with ecology at the Bord Pleanála oral hearing into the project. Involved in the monitoring of the construction phase of the project (2014-2017).

Laois – Kilkenny electricity reinforcement project (2010-2013)

Lead ecologist responsible for preparation of ecology chapter of EIS and NIS. Attended as expert witness dealing with ecology at the Bord Pleanála oral hearing into the project.

Ballyvouskilly to Garrow 110kV Underground Cable (2015)

Construction phase monitoring of cable installation across sensitive area of wet heath.

Kilpadogue to Knockanure 220kV Cable (2014)

Preparation of an AA Screening Report and EclS of the above cable route.

Freshwater Pearl Mussel EIP (2018)

Appointed to administer the locally led Freshwater Pearl Mussel European Innovation Partnership. Design and implementation of a locally led agri-environmental scheme aimed at improving the conservation status of Freshwater Pearl Mussel within eight priority catchments in west of Ireland. Six year project commenced in May 2018 with total budget of €10 million.

County Wetland Surveys (Clare, Kildare, Kerry, Monaghan, Wicklow, Sligo) (2007 - 2019)

Desktop and field based surveys developing inventories of wetland sites including lowland and upland wetland habitats. Final reports and Associated GIS datasets prepared for relevant local authorities & the Heritage Council.

Curragh wind farm and Coomacheo wind farm, Co Cork (2009-2013)

Lead ecologist responsible for monitoring of blanket bog habitats at Curragh wind farm and Coomacheo wind farm, Co Cork.

Grousemount wind farm, County Kerry (2016-17)

Invasive species survey and development of management plan. Kerry Slug surveys and reporting. Pre-construction ecological surveys of grid connection cable route.

Gas to the West Project, Northern Ireland (2016)

Detailed botanical and habitat condition assessments of wetland sites in Counties Armagh and Tyrone.

Wind Farm Ecological Assessments (2007-2016)

Preparation of Ecological Impact Assessments and Appropriate Assessment reports (Natura Impact Statements) for various wind energy projects throughout Ireland.

Wild Atlantic Way Ecological Monitoring (2015 and 2016)

Undertook detailed habitat and vegetation monitoring surveys at signature discovery points along the Wild Atlantic Way to provide baseline data against which future impacts can be assessed.

Centre Parcs Ireland, Newcastle Woods, County Longford (2015-2016)

Lead ecologist on the Centre Parcs Ireland forest resort project. Undertook baseline surveys and prepared both the Ecology chapter of EIS and the NIS.

Old Connaught Woodbrook Water Supply Scheme (2016)

Undertook detailed assessments of Annex I habitats (Petrifying springs and Alkaline fen) within Ballyman Glen SAC, County Wicklow.

Galway Outer Bypass (2014)

Undertook detailed surveys of Annex I wetland habitats within the Lough Corrib cSAC to inform the Appropriate Assessment process. Undertook field surveys and prepared report on the conservation status of terrestrial wetland habitats within the cSAC.

Curriculum Vitae

Tony Nagle

Telephone: 00353 (0)86 2612283

Email: tnagle65@gmail.com

Date of Birth: 6th March 1965

Home Address:

The Rookery, Ballyfeard,
Minane Bridge, Co. Cork.

Experience:

I have organised and participated in numerous bird surveys including:

- Monitoring of over 20 Barn Owl sites throughout County Cork since 1992
- Irish Wetland Bird Survey (IWeBS) in Cork Harbour and at various wetland and coastal sites around County Cork annually since its inception in 1994
- Seabird 2000, during which I surveyed seabirds on the South Cork coast
- Countryside Bird Survey annually since 1999
- National Hen Harrier Survey 1998-2000
- International Swan Census (Ireland)2000
- National Peregrine Falcon Survey 2002
- National Hen Harrier Survey 2005 (Regional Co-ordinator)
- National Hen Harrier Survey 2010 (Regional Co-ordinator)
- International Swan Census (Ireland) 2010
- UCC WINDHARRIER Project (2013)
- National Hen Harrier Survey 2015 (Regional Co-ordinator)
- Bird Atlas 2007-11: The Breeding and Wintering Birds of Britain and Ireland (Regional Co-ordinator)

Education

- MSc (Ecological Assessment)
- BSc (Environmental Management)
- Diploma in Human Resource Management
- BA in English and History

Employment 2013 – 2019

Ecological Consultant. I began working as an Ecological Consultant in 2013 and since then I have been involved in a wide variety of projects with the following clients:

- Nicholas O'Dwyer Ltd.
- Mott MacDonald
- Limosa Environmental Ltd.
- Ecology Ireland Ltd.
- Kelleher Ecological Services Ltd.
- Wetland Surveys Ireland Ltd.
- Glas Ecology Ltd.
- Brookfield Renewable Energy Group Ireland
- Irish Water
- Cork County Council
- IRD Duhallow, Raptor Life Project (Adviser on Hen Harrier ecology)
- Blackthorn Ecology Ltd.

Research Assistant at University College Cork studying the impact of wind farms on Hen Harriers Spring-Summer 2013 in the WINDHARRIER Project.

Project Ecologist and founding member of the **BRIDE Project** (5 year EIP Project on improving farmland biodiversity).