

**Helmut J. Janssen**  
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O B J E C T I V E

**Application for Position as Project Manager  
Resource Information and Integrated Management.**

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**KEY ATTRIBUTES :** Innovative; motivated; leader; high-performance team-player; initiative; organised; energetic; creative.

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**KEY EXPERIENCE :**

- 1. Environmental information for pro-active sustainable development and integrated resource management.**
  - 2. Strategic policy advice and site-specific solutions. Pragmatic C-offsetting; restoration of biodiversity and sustainability capital; soil cons.; indigenous afforestation.**
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S U M M A R Y O F Q U A L I F I C A T I O N S

**University of Otago** 1995

Dunedin, New Zealand

Master of Science in Forest Ecology / Biodiversity.

**University of Giessen,** 1983

Hessen, Germany

University Degree (with distinction) in  
Resource Management, Geography, Botany, Zoology and Geology.

**Gymnasium Thomaeum** 1978

Kempen, North Rhine Westfalia, Germany

Certificate of University entrance

Principal graduation subjects:

Biology, Geography, English, Sports.

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E D U C A T I O N

<b>Company Director/ Business management</b>	<i>2005 - 2007</i>
Adaptive Resource Management Ltd	
<b>Networking, project management and team building</b>	<i>1984 – 2007</i>
Experience, workshops and courses	
<b>Geographic Information Systems (GIS); Statistica</b>	<i>1998 - 2005</i>
Certificates in Arc GIS and application of statistical software. Spatial information from analyses of environmental data.	
<b>Physical fitness</b>	<i>at all times - 2007</i>
Extensive outdoors experience; martial arts 1 <sup>st</sup> Dan; cycling.	
<b>Ecological database design</b>	<i>1997-2001</i>
Design and development of regional biodiversity database to enter, store, retrieve and analyse ecological research and monitoring data, using spatial and thematic queries.	
<b>Farm Forestry</b>	<i>1996-97</i>
TOPNZ Certificate in Farm-Forest Management (with distinction)	
<b>University of Otago</b>	<i>1993 -95</i>
Dunedin, New Zealand	
Research leading to a M. Sc. in Ecology	
<b>University of Giessen</b>	<i>1982-83</i>
Hessen, Germany	
Studies in Geography, Botany	
<b>University of Marburg</b>	<i>1981-82</i>
Hessen, Germany	
Studies in Zoology, Botany Geography, Statistics.	
<b>University of Bonn</b>	<i>1980-81</i>
North Rhine Westfalia, Germany	
Studies in Geography, Geology, Ethnology, Planning and Statistics.	
<b>Drivers Licences</b>	<i>1977</i>
Kempen, North Rhine Westfalia, Germany	
Classes: A; B; F;	
Certificates for ATVs, 4 WD, off road motorcycle	<i>2004</i>
<b>Gymnasium Thomaeum (Certificate of University entry)</b>	<i>1969-78</i>
Kempen, North Rhine Westfalia, Germany	
General studies of all Sciences; Languages (German, English, French, Latin); Resource Management studies, Music and Sports.	

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**Director, Adaptive Resource Management Ltd**

2007

**Re-Foresting NZ programme**

See: ([www.bushvitality.org.nz/Reforestation\\_NZ](http://www.bushvitality.org.nz/Reforestation_NZ))

**Project Manager:**

2005-2007

**Resource Information and Integrated Management**

Indigenous Afforestation Projects: Far North farmland; Te Runanga o te Rarawa; Ata Rangi wines; Federated Farmers Regional President Dan Steele Retaruke – Wanganui

Identification of elite native seed sources for Native Afforestation projects (MAF Sustainable farming fund project 06/047)

Native Afforestation Silviculture (Far North District Council)

Bush Vitality Assessment. Growing Common Futures 2006. Revised edition [www.bushvitality.org.nz](http://www.bushvitality.org.nz) / Landcare Trust

Resource Information / Biodiversity Prioritisation (Canterbury RC, Nelson CC, Tasman DC)

**Environmental Scientist**

**Manawatu-Wanganui Regional Council**

1997-2005

**Responsibilities:**

Provide robust environmental information and strategic advice for:

- Effective policy development; (biodiversity / pest strategies)
- Efficient and inspiring policy implementation and
- Proactive sustainable development initiatives that can integrate production and protection on private land.

Develop robust and practical pressure, state and response indicators for native biodiversity and ecosystem functions (1997-2005) and to maintain soil quality under production (1997-2000).

Liaise with external organizations and key stakeholders.

**Project manager and author:**

**Books / field guides / reports:**

1. **Bush Vitality. A Visual Assessment kit. Managing the seasons for the years, pp184. (2004)**

<http://www.mwpress.co.nz/store/viewItem.asp?idProduct=471>

2. **Visual Soil Assessment. Field guides and management guidelines for lowland and hill country farmers (2000).** Project manager and co-author. Technology transfer.

Soil quality assessment tool for landowners and farmers.

3. Regional Wetland Inventory and Prioritisation (2005)
  4. Native Biodiversity Information. Issues and Options for the Manawatu District (2002, for Manawatu District Council)
  5. Ecological Assessment of a Forest Remnant within the Kahikatea Floodplain Ecosystem (2002, for Palmerston North City Council).
  6. State of the Environment reports 1999 and 2005. Ecosystems and Soils chapters.
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## **Presentations:**

Biodiversity prioritization and integration workshops for Tasman, Nelson, MarlDC, WRC, ECan, EWaikato, GWRC, Hawkes Bay, FNDC, DoC Wanganui and Wellington Conservancies;

Bush Vitality workshops for Tasman DC, horizonsmw and Taranaki Regional Councils in conjunction with Tane's Tree Trust.

Regional biodiversity information and site-prioritization methods at:

- Landesanstalt fuer Oekologie, Bodenkunde und Forsten, North Rhine Westfalia, Germany (2000; 2004; 2005; 2006)
- Umwelt Forschungszentrum, Leipzig, Germany (2000; 2004)
- Southland Regional Council (2003)
- Hawkes Bay Regional Council (2003)
- Department of Conservation Wanganui Conservancy; Wellington Head Office (2001-4)
- NZ Ecological Society Conferences 2000 – 2006.
- Local Government forum Greater Wellington RC (1998; 2004).
- Public meetings

Regional biodiversity / biosecurity issues

- NZ Biodiversity Strategy,
- Councilors workshops,
- District Councils,
- Planning group meetings,
- Community organizations (Federated farmers, QE II, NGOs, Forest and Bird).

Habitat and population analyses to prioritise ecological restoration projects:

- Presentation of methods to identify functionally intact significant natural areas.
- Peer review of metapopulation model: Meta - X, (Dr. Volker Grimm, Dr. Karin Frank)
- Presentation on fragmentation analysis of native habitats

Design and development of regional biodiversity database ("ecoBase")

Design of monitoring methods to assess state and pressures on regional biodiversity and native ecosystem function on private land

Case study on native bird presence / absence to highlight issues around native habitat fragmentation and dysfunction.

Regional ecosystem classification (Land resource inventory and GIS) for the purpose of monitoring land use effects and assessing the significance of native ecotopes.

Workshops to develop robust environmental information, define key environmental issues:

- Remote sensing (LCDB 2 MAF; Ecosat Landcare Research)
  - Geographic Information Systems
  - Biodiversity strategy; and SOE monitoring (MfE; DoC)
  - Significance in terms of RMA 1991 (MfE; Ecologists forum)
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**Consultancy, various Regional - and District Councils,**

1995 -97

Forest Management Plans: "Productive Forestry.  
A design of combined native and northern deciduous trees."

Development and presentations of a generic methodology to monitor land use effects on soil quality.

- Northland Regional Council, Whangarei.

Methodology provided to monitor the nutrient storage capacity of soils under various types of vegetation and management.

- Tasman District Council, Richmond.

Sustainable management of soil resources.

Methodology provided to monitor the nutrient storage capacity of soils under various types of vegetation and management for the Tasman District.

The recommended parameters were successfully applied on the Korere trial farm in April 1996.

**University of Otago,**  
Dunedin, New Zealand

1993-95

**Master of Science in Ecology**

Original experimental design and comprehensive analyses of a multitude of parameters. Statistical analyses demonstrate:

1. Ecological strategies of tree species from temperate forest ecosystems.
2. Trees adapted to fire-regeneration, affect soil quality significantly different compared with non-fire adapted indigenous or exotic deciduous trees.

**Consultancy,**  
Tasman Bay, New Zealand

1991-93

- Feasibility study to position regions in New Zealand as a catalyst for expansion in sustainable hydrogen energy production, hydrogen energy storage and use (hydrogen powered public transport).
- Regional resource management issues (Planned forestry restrictions in aquifer recharge zone)
- Effects of management on soils (organic farming / pine plantations)
- Alluvial (Au)- and hard rock mining (Ni,Cu) (Planning Tribunal)
- Ecosystem and landscape design
- Shelter-wood, permanent canopy forestry (Fairfield House, Nelson)

**Conference paper,**

1991

Napier, Hawkes Bay, New Zealand

International Conference on Sustainable Land Management:

Title:

"Shelter-wood Forestry:

Sustainable Land Management in Production Forestry."

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**Conservation officer,***1990-91*

Department of Conservation

Protection section, Nelson - Marlborough Conservancy:

- Classification system for scientific information;
- Analysis of submissions on proposals for marine reserves;
- Publication of Conservancy report;
- Inventory and population assessment of endangered species;
- Mapping of weed distribution;
- Processing of foreshore applications
- Data ordination of coastal marine biota;
- Preparation of D.o.C. submissions to:
  - A M.A.F. proposal; Facilitation of Aid on Risk Management,
  - The management and protection of riparian ecotones.

**Whole Foods, Bio-Grow, Biodynamic,***1987-89*

Four Seasons, Nelson

**Customer service;**

- Provision of advice on nutritional and medicinal inquiries.

**Local Exchange and Trade Systems***1988 -89*

Nelson; Motueka

- Leading initiative to set up organising teams
- Teamwork, establishing statutes and rules, liaising with Government Departments and local promotion of L.E.T. systems, until viability was assured by memberships exceeding 400 people.

**Seminars held, publications***1987-88*

Nelson; N.Z.

- Polytechnic: Sustainability of agriculture and horticulture; historical developments; industrial agriculture; organic farming practices; permaculture.
- Environment journals and the magazine "Soil and Health": Climate change, temperature incline, expected scenarios.

**Landscape Design / Ecological Restoration,***1987*

Otuwhero Peninsula, Nelson-Motueka

Responsible for the site-selection of thirty indigenous species  
Managing team to plant over 10,000 native trees.

**Department of Scientific and Industrial Research***1986*

Nelson, Te Wai Pounamu, New Zealand

- Filing of botanical data for Dr. Peter Wilson.
  - Use of D.S.I.R. library for the identification of indigenous flora and the presence of exotic plants, with particular reference to forest associations and to species with medicinal properties.
  - Feasibility study examining the cultivation of medicinal plants in N.Z.
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**South East Asia, Eastern Australia, Tasmania, New Zealand.**

1985

Comparative study of southern hemisphere temperate ecosystems and cultures, with a particular interest in forest ecosystems.

**Hessen, Germany,**

1984-85

Workshops organised and attended to remedy urgent environmental issues:

- Central European forest dieback.
- The environmental consequences of the cold war.

Archaeological fieldwork, leading to the discovery of:

- The foundations of a castle built by the Franks 900 - 1200 years b.p.;
- The Roman Limes 1700 years. b.p.;
- A Celtic - Germanic settlement with an age of over 2000 years.

**Madagascar,**

1984

Ecological and ethnological research, with logistical support from the Geography Department of the University of Giessen (Prof. Haffner, Geography; Prof. Knapp, Ecology).

Human cultural adaptations to life in a tropical forest; the highlands; the savanna; the desert.

Observation of recent climatic irregularities (Increased cyclone frequency).

Workshops held locally to:

- Promote cropping under tree cover
- Encourage the use of "build your own" wind turbines

Banned toxins on street markets:

- Lobbied the ambassadors of two countries with companies exporting DDT to intervene against such practice.

**North-, Central and northern South America,**

1979

Comparative study of land ecosystems and cultures.

**Central Europe, Scandinavia,**

**Mediterranean, Iberian peninsula, Italy, Greece, Egypt,**

1978-82

Travel objectives:

Study biogeography, ecological issues and cultures.

**North Rhine Westfalia,**

Krefeld, West Germany

1976

Department of Geology and Pedology (Dr. W. Paas):

Fieldwork to gather information on the soil structure and soil texture to a depth of 2 m, for the production of large-scale soil maps in North Rhine Westfalia, Germany.

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L A N G U A G E S

ENGLISH; GERMAN; FRENCH; SPANISH; SWEDISH; DUTCH; MAORI; LATIN.

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## REFERENCES

### POLICY / ENVIRONMENTAL CONSULTANTS:

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